

EXHIBIT 57

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17 **UNITED STATES DISTRICT COURT**

18 **NORTHERN DISTRICT OF CALIFORNIA**

19 CISCO SYSTEMS, INC.,)
)
 20 Plaintiff,)
)
 21 v.)
)
 22 ARISTA NETWORKS, INC.,)
)
 23 Defendant.)
)
 24)

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CASE NO. 5:14-cv-05344-BLF

**PLAINTIFF CISCO SYSTEMS, INC.'S
 SUPPLEMENTAL OBJECTIONS AND
 RESPONSES TO DEFENDANT
 ARISTA NETWORKS, INC.'S
 INTERROGATORY NOS. 16 AND 19**

1 Pursuant to Rules 26 and 33 of the Federal Rules of Civil Procedure, Plaintiff Cisco
2 Systems, Inc. (“Cisco”), by counsel, hereby provides its supplemental objections and responses to
3 Defendant Arista Networks, Inc.’s (“Arista’s”) Interrogatory Nos. 16 and 19.

4 **GENERAL OBJECTIONS**

5 Cisco makes the following general objections to Arista’s Interrogatories, which apply to
6 each interrogatory regardless of whether the general objections are specifically incorporated into
7 the specific objections and responses below.

8 1. Cisco is responding to each interrogatory as it interprets and understands each
9 interrogatory with respect to the issues in this Litigation. If Arista asserts a different interpretation
10 of any interrogatory, Cisco reserves the right to supplement or amend its responses or objections.

11 2. Cisco objects to each interrogatory to the extent it is inconsistent with or seeks to
12 impose obligations beyond those imposed by the Federal Rules of Civil Procedure, the Civil and
13 Patent Local Rules of the Northern District of California, and any orders governing this Litigation.

14 3. Cisco objects to the definitions of “Cisco,” “You,” and “Your,” to the extent that
15 the definitions are overly broad and purport to require Cisco to provide information that is not
16 within the possession, custody, or control of Cisco.

17 4. Cisco objects to Arista’s definition of “Asserted Patents” and “Asserted Claim” to
18 the extent that Arista’s use of those terms in its interrogatories to Cisco renders certain of Arista’s
19 Interrogatories as constituting multiple discrete subparts that are in fact multiple, separate
20 interrogatories.

21 5. Cisco objects to the definitions of “CLI Command” and “Network Management
22 Product” to the extent that these terms are vague and ambiguous with respect to their scope and
23 application as used by Arista, rendering these terms at least potentially unclear with respect to
24 what particular devices are intended to be incorporated thereby, and further on the grounds that
25 use of the terms in Arista’s Interrogatories renders those interrogatories overbroad and unduly
26 burdensome to the extent that the discovery sought by such interrogatories is not reasonably tied to
27 Cisco’s claims or Arista’s defenses in this Litigation. Cisco further objects to the use of these
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1 terms in Arista's Interrogatories to the extent that such interrogatories are not reasonably
2 calculated to lead to the discovery of admissible evidence.

3 6. Cisco objects to the definition of "Relating to" as vague and ambiguous and overly
4 broad, unduly burdensome, and further to the extent that interrogatories using such terms are not
5 reasonably calculated to lead to the discovery of admissible evidence.

6 7. Cisco objects to the definition of "Identify" and the instructions set out in
7 Paragraphs 10–12 as overly broad, unduly burdensome, and further to the extent that
8 interrogatories using such terms are not reasonably calculated to lead to the discovery of
9 admissible evidence. Cisco further objects to these definitions and instructions to the extent that
10 the burden of deriving or ascertaining the requested information is substantially the same for
11 Arista as it is for Cisco.

12 8. Cisco objects to each and every interrogatory as overly broad, unduly burdensome,
13 cumulative, and duplicative to the extent it seeks identification of "any," "each," or "all"
14 documents of a specified type or nature, when a subset of such documents will provide the
15 requested information. Cisco objects generally to each and every interrogatory as overly broad,
16 vague and ambiguous, and not reasonably calculated to lead to the discovery of admissible
17 evidence, to the extent that it seeks information regarding "any," "each," or "all" persons, entities,
18 objects, or events.

19 9. Cisco objects to the "Definitions" and "Instructions" of the Interrogatories to the
20 extent they alter the plain meaning of any specific interrogatory and render the interrogatory
21 vague, ambiguous, and overbroad.

22 10. Cisco objects to each interrogatory to the extent that it is unlimited in temporal
23 and/or geographic scope, or to the extent it would require Cisco to provide information or
24 documents in violation of an applicable foreign law or regulation.

25 11. Cisco objects to each interrogatory to the extent that it is overbroad, unduly
26 burdensome, and/or calls for provision of information or documents that are neither relevant to
27 any claim or defense in this litigation nor reasonably likely to lead to the discovery of admissible
28 evidence.

1 12. Cisco objects to each interrogatory to the extent that it calls for production of
2 information or documents that are not within the possession, custody, or control of Cisco, or to the
3 extent the interrogatory seeks information that may not be disclosed pursuant to a protective order
4 or non-disclosure agreement, or calls for Cisco to prepare documents and/or things that do not
5 already exist.

6 13. Cisco objects to each interrogatory to the extent that it calls for production of
7 information or documents that are publicly available or equally available to Arista, and therefore
8 are of no greater burden for Arista to obtain than for Cisco to obtain.

9 14. Cisco objects to each interrogatory as overbroad and unduly burdensome to the
10 extent that it is not limited to a time frame relevant to this Litigation or seeks information or
11 documents not within the applicable scope of this Litigation.

12 15. Cisco objects to each interrogatory to the extent it seeks information or documents
13 that Cisco is not permitted to disclose pursuant to confidentiality obligations to third parties or
14 court order. Cisco will provide such responsive, relevant, and non-privileged information and/or
15 produce documents in accordance with the Protective Order governing this Litigation and after
16 complying with its obligations to the third party and/or court.

17 16. Cisco objects to each interrogatory to the extent it seeks information, documents,
18 and/or things protected from disclosure by the attorney-client privilege, work-product doctrine,
19 common-interest privilege, and/or any other applicable privilege, immunity, doctrine, or
20 protection, including without limitation in connection with the common interest doctrine
21 (collectively, as used herein, “privileged”). Nothing contained in these objections and responses
22 should be considered a waiver of any attorney-client privilege, work-product protection, or any
23 other applicable privilege or doctrine, including in connection with the common interest doctrine.
24 Cisco does not intend to provide information or produce documents that would divulge any
25 privileged information. Any such disclosure is inadvertent and shall not be deemed a waiver of
26 any applicable privilege or immunity.

27 17. Cisco objects to Arista’s Interrogatories to the extent that their subparts exceed the
28 number of interrogatories permitted under the Federal Rules of Civil Procedure, including Rule

1 33(a)(1), the Civil and Patent Local Rules of the Northern District of California, and any orders
2 governing this Litigation.

3 18. Cisco objects to each interrogatory to the extent that it is vague, ambiguous, or
4 confusing due to Arista's failure to define terms or failure to describe the information or
5 documents sought with reasonable particularity.

6 19. Cisco objects to the factual characterizations of Arista's Interrogatories. By
7 responding, Cisco does not accept or admit any of Arista's factual characterizations.

8 20. Terms or phrases with specific legal significance appear in many of Arista's
9 Interrogatories. Neither Cisco's objections and responses, nor the provision of information or
10 production of documents in response to any interrogatory, are an admission or indication that such
11 information and documents are relevant to any legal theory, or that any of the legal terms used
12 have any applicability in their legal sense to any information or documents produced by Cisco in
13 response to the Interrogatories.

14 21. Cisco objects to these Interrogatories on relevance and burden grounds to the extent
15 they are not limited in temporal scope, or to the extent that time period specified encompasses
16 time periods not relevant to this Litigation, or to the extent the requests are not limited in
17 geographic scope.

18 22. Cisco objects to the Interrogatories as overly broad and unduly burdensome to the
19 extent they call for the provision of information or production of documents of technical
20 information, or otherwise, including source code, in connection with Cisco's products, where such
21 information or documents are either duplicative of other documents or information that will be
22 produced and/or are not relevant to this Litigation and Cisco's products relevant to this Litigation.
23 Cisco further objects to the Interrogatories to the extent that they call for the provision of
24 information or production of documents of technical information, or otherwise, including source
25 code, in connection with Cisco's products, where such information and documents are not
26 necessary to understand the relevant structure, function, and operation of Cisco's products relevant
27 to this Litigation.

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23. Cisco objects to each interrogatory as premature to the extent it calls for documents or information that is the subject of later disclosure deadlines in this Litigation and/or expert reports and testimony, including as set forth in Rule 26(a)(2) of the Federal Rules of Civil Procedure, the Patent Local Rules of the Northern District of California, and the Case Management Order entered in this Litigation.

24. Any Cisco response that it will provide information or produce documents should not be construed to mean that responsive information or documents in fact exist; only that, if such relevant, non-privileged, non-objectionable information or documents exist, are in Cisco's possession, custody, or control, and are located after a reasonable search of the location or locations where responsive information or documents are likely to be located, such information or documents will be produced in a timely manner.

25. Cisco further reserves all rights to supplement its responses to Arista's Interrogatories in compliance with the Federal Rules of Civil Procedure, including under Rule 26(e), as well as the Civil and Patent Local Rules of the Northern District of California and any orders governing this Litigation, and as Cisco's investigation and discovery proceeds in this Litigation.

RESPONSES TO INTERROGATORIES

INTERROGATORY NO. 16:

For each CLI Command listed in Cisco's Second Amended Complaint (including exhibits) and each command hierarchy listed in Cisco's Second Amended Complaint (including exhibits), and each command mode and prompt listed in Cisco's Second Amended Complaint (including exhibits), identify: (i) the author or originator of such Command, command hierarchy, command mode and prompt, (ii) the date of such authorship or creation, (iii) the document(s) in which such Command, command hierarchy, command mode or prompt was first fixed in any tangible medium of expression, (iv) the document(s) in which such Command, command hierarchy, command mode or prompt was first published, and (v) the first Cisco product (including version number) that used or responded to each CLI Command, command hierarchy, command mode or prompt.

RESPONSE TO INTERROGATORY NO. 16:

Cisco incorporates by reference its General Objections as though fully set forth herein. Cisco further objects to this interrogatory as compound and unduly burdensome, as it calls for thousands of pieces of information. Cisco further objects to this interrogatory as irrelevant and not calculated to lead to the discovery of admissible evidence to the extent it seeks information not relevant to the copyrightability of Cisco's works-in-suit and seeks information regarding acts not at issue in this suit. Cisco further objects to this interrogatory to the extent that it calls for information that is publicly available or equally available to Arista, and therefore is of no greater burden for Arista to obtain than for Cisco to obtain. Cisco also objects to this interrogatory as undefined, vague, ambiguous, overbroad, and unduly burdensome in its use of the terms "each CLI command," "each command hierarchy," "each command mode and prompt," and "identify." Cisco further objects to this interrogatory to the extent it calls for a legal conclusion. Cisco also objects to this interrogatory to the extent that it is cumulative and duplicative of other discovery sought by Arista, including at least Interrogatory No. 5. Cisco further objects to this interrogatory to the extent it seeks information that is protected by the attorney-client privilege, that constitutes attorney work-product, or that is protected by any other applicable privilege, protection, or immunity, including without limitation in connection with the common interest doctrine.

Subject to and without waiver of the foregoing general and specific objections, Cisco responds as follows:

Cisco incorporates by reference its response to Arista's Interrogatory No. 5 as if fully set forth herein. Because the burden of identifying the information sought by this interrogatory is the same for Arista as it is for Cisco, pursuant to Fed. R. Civ. P. 33(d), Cisco identifies the following documents as containing responsive information:

IOS v. 11.0: Source Code, CSI-CLI-00403865, CSI-CLI-00356391 - CSI-CLI-00356394, CSI-CLI-00356395 - CSI-CLI-00356398.

IOS v. 11.1: Source Code, CSI-CLI-00403866, CSI-CLI-00356385 - CSI-CLI-00356388, CSI-CLI-00356588 - CSI-CLI-00356591, CSI-CLI-00356500 - CSI-CLI-00356501, CSI-CLI-00356562 - CSI-CLI-00356563.

1 IOS v. 11.2: Source Code, CSI-CLI-00403867, CSI-CLI-00356578 - CSI-CLI-00356581,
2 CSI-CLI-00356496 - CSI-CLI-00356499.

3 IOS v. 11.3: Source Code, CSI-CLI-00403868, CSI-CLI-00356538 - CSI-CLI-00356541,
4 CSI-CLI-00356446 - CSI-CLI-00356549, CSI-CLI-00356582 - CSI-CLI-00356587, CSI-CLI-
5 00356576 - CSI-CLI-00356577.

6 IOS v. 12.0: Source Code, CSI-CLI-00403869, CSI-CLI-00356520 - CSI-CLI-00356523,
7 CSI-CLI-00356516 - CSI-CLI-00356519, CSI-CLI-00356550 - CSI-CLI-00356555, CSI-CLI-
8 00356484 - CSI-CLI-00356485.

9 IOS v. 12.1: Source Code, CSI-CLI-00403870, CSI-CLI-00356512 - CSI-CLI-00356515,
10 CSI-CLI-00356572 - CSI-CLI-00356575, CSI-CLI-00356490 - CSI-CLI-00356495, CSI-CLI-
11 00356506 - CSI-CLI-00356507.

12 IOS v. 12.2: Source Code, CSI-CLI-00403871, CSI-CLI-00356508 - CSI-CLI-00356511,
13 CSI-CLI-00356506 - CSI-CLI-00356508, CSI-CLI-00356556 - CSI-CLI-00356561, CSI-CLI-
14 00356536 - CSI-CLI-00356537.

15 IOS v. 12.3: Source Code, CSI-CLI-00403872, CSI-CLI-00403874, CSI-CLI-00356524 -
16 CSI-CLI-00356527, CSI-CLI-00356542 - CSI-CLI-00356545.

17 IOS v. 12.4: Source Code, CSI-CLI-00403873, CSI-CLI-00356486 - CSI-CLI-00356489,
18 CSI-CLI-00356705 - CSI-CLI-00356705.

19 IOS v. 15.0: Source Code, CSI-CLI-00054598 – CSI-CLI-00074027, CSI-CLI-00216957 –
20 CSI-CLI-00217612, CSI-CLI-00223197 – CSI-CLI-00224078, CSI-CLI-00226300 – CSI-CLI-
21 00226709, CSI-CLI-00267773 – CSI-CLI-00268938, CSI-CLI-00271385 – CSI-CLI-00271914,
22 CSI-CLI-00274107 – CSI-CLI-00274387, CSI-CLI-00275376 – CSI-CLI-00276837, CSI-CLI-
23 00314732 – CSI-CLI-00314943, CSI-CLI-00316210 – CSI-CLI-00317412, CSI-CLI-00317634 –
24 CSI-CLI-00317847, CSI-CLI-00318351 – CSI-CLI-00318532, CSI-CLI-00319252 – CSI-CLI-
25 00321189, CSI-CLI-00324036 – CSI-CLI-00324389, CSI-CLI-00325497 – CSI-CLI-00325713,
26 CSI-CLI-00332893 – CSI-CLI-00345450, CSI-CLI-00348572 – CSI-CLI-00348689, CSI-CLI-
27 00350066 – CSI-CLI-00351948, CSI-CLI-00356480 - CSI-CLI-00356483, CSI-CLI-00356564 -
28 CSI-CLI-00356567.

1 IOS v. 15.1: Source Code, CSI-CLI-00034689 – CSI-CLI-00054565, CSI-CLI-00223197 –
 2 CSI-CLI-00224078, CSI-CLI-00226300 – CSI-CLI-00226414, CSI-CLI-00226710 – CSI-CLI-
 3 00227953, CSI-CLI-00267773 – CSI-CLI-00268938, CSI-CLI-00314422 – CSI-CLI-00314731,
 4 CSI-CLI-00314944 – CSI-CLI-00316209, CSI-CLI-00317413 – CSI-CLI-00317633, CSI-CLI-
 5 00317848 – CSI-CLI-00318350, CSI-CLI-00318533 – CSI-CLI-00319251, CSI-CLI-00319765 –
 6 CSI-CLI-00325376, CSI-CLI-00325497 – CSI-CLI-00325713, CSI-CLI-00333135 – CSI-CLI-
 7 00333809, CSI-CLI-00337967 – CSI-CLI-00338200, CSI-CLI-00338481 – CSI-CLI-00338696,
 8 CSI-CLI-00338941 – CSI-CLI-00339290, CSI-CLI-00345451 – CSI-CLI-00354832, CSI-CLI-
 9 00356502 - CSI-CLI-00356505, CSI-CLI-00356532 - CSI-CLI-00356535.

10 IOS v. 15.2: Source Code, CSI-CLI-00024968 – CSI-CLI-00034688, CSI-CLI-00074028 –
 11 CSI-CLI-00074113, CSI-CLI-00091773 – CSI-CLI-00091888, CSI-CLI-00098678 – CSI-CLI-
 12 00099910, CSI-CLI-00101493 – CSI-CLI-00101653, CSI-CLI-00102320 – CSI-CLI-00102428,
 13 CSI-CLI-00102615 – CSI-CLI-00102827, CSI-CLI-00104206 – CSI-CLI-00104306, CSI-CLI-
 14 00105599 – CSI-CLI-00105706, CSI-CLI-00106165 – CSI-CLI-00106403, CSI-CLI-00107100 –
 15 CSI-CLI-00107198, CSI-CLI-00108121 – CSI-CLI-00110637, CSI-CLI-00142102 – CSI-CLI-
 16 142151, CSI-CLI-00145892 – CSI-CLI-00145912, CSI-CLI-00146305 – CSI-CLI-00146361,
 17 CSI-CLI-00146494 – CSI-CLI-00146672, CSI-CLI-00150117 – CSI-CLI-00150301, CSI-CLI-
 18 00151700 – CSI-CLI-00151794, CSI-CLI-00153045 – CSI-CLI-00154056, CSI-CLI-00154957 –
 19 CSI-CLI-00154967, CSI-CLI-00161254 – CSI-CLI-00161264, CSI-CLI-00162423 – CSI-CLI-
 20 00162433, CSI-CLI-00162764 – CSI-CLI-00163054, CSI-CLI-00163297 – CSI-CLI-00163575,
 21 CSI-CLI-00163892 – CSI-CLI-00163997, CSI-CLI-00167730 – CSI-CLI-00168576, CSI-CLI-
 22 00168785 – CSI-CLI-00170897, CSI-CLI-00171210 – CSI-CLI-00171263, CSI-CLI-00173118 –
 23 CSI-CLI-00173146, CSI-CLI-00227954 – CSI-CLI-00228224, CSI-CLI-00236536 – CSI-CLI-
 24 00237167, CSI-CLI-00237495 – CSI-CLI-00239781, CSI-CLI-00241096 – CSI-CLI-00248137,
 25 CSI-CLI-00276838 – CSI-CLI-00288213, CSI-CLI-00288322 – CSI-CLI-00289855, CSI-CLI-
 26 00292982 – CSI-CLI-00294561, CSI-CLI-00356528 - CSI-CLI-00356531, CSI-CLI-00356697 -
 27 CSI-CLI-00356700.

1 IOS v. 15.4: Source Code, CSI-CLI-00074114 – CSI-CLI-00091772, CSI-CLI-00091889 –
 2 CSI-CLI-00098677, CSI-CLI-00217613 – CSI-CLI-00223196 – CSI-CLI-00224078, CSI-CLI-
 3 00224079 – CSI-CLI-00226299, CSI-CLI-00276838 – CSI-CLI-00277169, CSI-CLI-00289856 –
 4 CSI-CLI-00310345, CSI-CLI-00325714 – CSI-CLI-00332892, CSI-CLI-00356657 - CSI-CLI-
 5 00356660, CSI-CLI-00356653 - CSI-CLI-00356656.

6 IOS XR v. 3.0: Source Code, CSI-CLI-00359263 – CSI-CLI-00362850, CSI-CLI-
 7 00356665 - CSI-CLI-00356668, CSI-CLI-00356618 - CSI-CLI-00356621.

8 IOS XR v. 3.2: Source Code, CSI-CLI-00362851 – CSI-CLI-00370474, CSI-CLI-
 9 00356661 - CSI-CLI-00356664, CSI-CLI-00356701 - CSI-CLI-00356704.

10 IOS XR v. 3.3: Source Code, CSI-CLI-00370475 – CSI-CLI-00380671, CSI-CLI-
 11 00356689 - CSI-CLI-00356692, CSI-CLI-00356642 - CSI-CLI-00356645.

12 IOS XR v. 3.4: Source Code, CSI-CLI-00380672 – CSI-CLI-00389727, CSI-CLI-
 13 00356634 - CSI-CLI-00356637, CSI-CLI-00356638 - CSI-CLI-00356641.

14 IOS XR v. 3.5: Source Code, CSI-CLI-00389728 – CSI-CLI-00403864, CSI-CLI-
 15 00356685 - CSI-CLI-00356688, CSI-CLI-00356614 - CSI-CLI-00356617.

16 IOS XR v. 4.3: Source Code, CSI-CLI-00099911 – CSI-CLI-00101492, CSI-CLI-
 17 00101654 – CSI-CLI-00102319, CSI-CLI-00102429 – CSI-CLI-00102614, CSI-CLI-00102828 –
 18 CSI-CLI-00104205, CSI-CLI-00104307 – CSI-CLI-00105598, CSI-CLI-00105707 – CSI-CLI-
 19 00106164, CSI-CLI-00106404 – CSI-CLI-00107099, CSI-CLI-00107199 – CSI-CLI-00108120,
 20 CSI-CLI-00102732 – CSI-CLI-00127155, CSI-CLI-00137956 – CSI-CLI-00142101, CSI-CLI-
 21 00142214 - CSI-CLI-00142101 – CSI-CLI-00143091, CSI-CLI-00143160 – CSI-CLI-00145891,
 22 CSI-CLI-00145913 – CSI-CLI-00146304, CSI-CLI-00146362 – CSI-CLI-00146493, CSI-CLI-
 23 00146673 – CSI-CLI-00150166, CSI-CLI-00150302 – CSI-CLI-00151699, CSI-CLI-00151795 –
 24 CSI-CLI-00153044, CSI-CLI-00154057 – CSI-CLI-00154956, CSI-CLI-00154968 – CSI-CLI-
 25 00161253, CSI-CLI-00161265 – CSI-CLI-00162422, CSI-CLI-00162434 – CSI-CLI-00162763,
 26 CSI-CLI-00163998 – CSI-CLI-00167729, CSI-CLI-00168577 – CSI-CLI-00168784, CSI-CLI-
 27 00170898 – CSI-CLI-00171209, CSI-CLI-00171264 – CSI-CLI-00173117, CSI-CLI-00173147 –
 28

1 CSI-CLI-00173412, CSI-CLI-00356681 - CSI-CLI-00356684, CSI-CLI-00356649 - CSI-CLI-
2 00356652.

3 IOS XR v. 5.2: Source Code, CSI-CLI-00110638 – CSI-CLI-00123731, CSI-CLI-
4 00127156 – CSI-CLI-00137955, CSI-CLI-00142152 – CSI-CLI-00142213, CSI-CLI-00143092 –
5 CSI-CLI-00143159, CSI-CLI-00163055 – CSI-CLI-00163296, CSI-CLI-00163576 – CSI-CLI-
6 00163891, CSI-CLI-00189310 – CSI-CLI-00191711, CSI-CLI-00356626 - CSI-CLI-00356629,
7 CSI-CLI-00356602 - CSI-CLI-00356605.

8 IOS XE v. 2.1: Source Code, CSI-CLI-00229755 – CSI-CLI-00236535, CSI-CLI-
9 00268939 – CSI-CLI-00271384, CSI-CLI-00271915 – CSI-CLI-00274106, CSI-CLI-00274388 –
10 CSI-CLI-00276837, CSI-CLI-00313895 – CSI-CLI-00314421, CSI-CLI-00325377 – CSI-CLI-
11 00325496, CSI-CLI-00356693 - CSI-CLI-00356696, CSI-CLI-00356606 - CSI-CLI-00356609.

12 IOS XE v. 3.5: Source Code, CSI-CLI-00180764 – CSI-CLI-00189309, CSI-CLI-
13 00228225 – CSI-CLI-00229754, CSI-CLI-00236536 – CSI-CLI-00236768, CSI-CLI-00237168 –
14 CSI-CLI-00237494, CSI-CLI-00237785 – CSI-CLI-00237793, CSI-CLI-00239782 – CSI-CLI-
15 00241095, CSI-CLI-00248138 – CSI-CLI-00267772, CSI-CLI-00277170 – CSI-CLI-00277359,
16 CSI-CLI-00288214 – CSI-CLI-00288321, CSI-CLI-00288673 – CSI-CLI-00289121, CSI-CLI-
17 00310346 – CSI-CLI-00313894, CSI-CLI-00356610 - CSI-CLI-00356613, CSI-CLI-00356630 -
18 CSI-CLI-00356633.

19 NX-OS v. 4.0: Source Code, CSI-CLI-00054566 – CSI-CLI-00054597, CSI-CLI-
20 00191712 – CSI-CLI-00192226, CSI-CLI-00202929 – CSI-CLI-00207082, CSI-CLI-00356646 -
21 CSI-CLI-00356648, CSI-CLI-00356622 - CSI-CLI-00356625.

22 NX-OS v. 5.0: Source Code, CSI-CLI-00173413 – CSI-CLI-00176459, CSI-CLI-
23 00196923 – CSI-CLI-00197194, CSI-CLI-00197411 – CSI-CLI-00197600, CSI-CLI-00199585 –
24 CSI-CLI-00200362, CSI-CLI-00201361 – CSI-CLI-00201380, CSI-CLI-00201823 – CSI-CLI-
25 00201848, CSI-CLI-00207083 – CSI-CLI-00212262, CSI-CLI-00216926 – CSI-CLI-00216955,
26 CSI-CLI-00356599 - CSI-CLI-00356601, CSI-CLI-00356677 - CSI-CLI-00356680.

27 NX-OS v. 5.2: Source Code, CSI-CLI-00176460 – CSI-CLI-00178217, CSI-CLI-
28 00196489 – CSI-CLI-00196922, CSI-CLI-00197195 – CSI-CLI-00197410, CSI-CLI-00197601 –

1 CSI-CLI-00199584, CSI-CLI-00200363 – CSI-CLI-00201360, CSI-CLI-00201381 – CSI-CLI-
 2 00201822, CSI-CLI-00201849 – CSI-CLI-00202928, CSI-CLI-00356596 - CSI-CLI-00356598,
 3 CSI-CLI-00356673 - CSI-CLI-00356676.

4 NX-OS v. 6.2: Source Code, CSI-CLI-00178218 – CSI-CLI-00180763, CSI-CLI-
 5 00192227 – CSI-CLI-00196488, CSI-CLI-00212263 – CSI-CLI-00216925, CSI-CLI-00356593 -
 6 CSI-CLI-00356595, CSI-CLI-00356669 - CSI-CLI-00356672.

7 Cisco's discovery efforts in this case are ongoing, and Cisco reserves the right to further
 8 supplement this response in light of facts learned during discovery.

9
 10 **FIRST SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 16:**

11 Subject to and without waiver of its general and specific objections, Cisco further responds
 12 as follows:

13 Based on the information presently available to Cisco, the protectable expressions from
 14 Cisco's copyrighted works-in-suit that Arista copied were authored by Cisco, as works made for
 15 hire by Cisco employees. *See* 17 U.S.C. § 201(b). Cisco Pursuant to Fed. R. Civ. P. 33(d), Cisco
 16 directs Arista to the following documents, from which Arista can gather information regarding the
 17 status of its asserted copyright works as works for hire, as well as information regarding the
 18 presumptive validity of Cisco's copyrights and the date on which those works were completed:

19	Copyrighted Work	Copyright Application	Copyright Registration
20	IOS 11.0	CSI-CLI-00356391 - CSI-CLI-00356394	CSI-CLI-00356395 - CSI-CLI-00356398
21	IOS 11.1	CSI-CLI-00356385 - CSI-CLI-00356388 CSI-CLI-00356500 - CSI-CLI-00356501	CSI-CLI-00356588 - CSI-CLI-00356591 CSI-CLI-00356562 - CSI-CLI-00356563
22	IOS 11.2	CSI-CLI-00356578 - CSI-CLI-00356581	CSI-CLI-00356496 - CSI-CLI-00356499
23	IOS 11.3	CSI-CLI-00356538 - CSI-CLI-00356541 CSI-CLI-00356582 - CSI-CLI-00356587	CSI-CLI-00356446 - CSI-CLI-00356549 CSI-CLI-00356576 - CSI-CLI-00356577
24	IOS 12.0	CSI-CLI-00356520 - CSI-CLI-00356523 CSI-CLI-00356550 - CSI-CLI-00356555	CSI-CLI-00356516 - CSI-CLI-00356519 CSI-CLI-00356484 - CSI-CLI-00356485
25	IOS 12.1	CSI-CLI-00356512 - CSI-CLI-00356515 CSI-CLI-00356490 - CSI-CLI-00356495	CSI-CLI-00356572 - CSI-CLI-00356575 CSI-CLI-00356506 - CSI-CLI-00356507
26	IOS 12.2	CSI-CLI-00356508 - CSI-CLI-00356511 CSI-CLI-00356556 - CSI-CLI-00356561	CSI-CLI-00356506 - CSI-CLI-00356508 CSI-CLI-00356536 - CSI-CLI-00356537
27	IOS 12.3	CSI-CLI-00356524 - CSI-CLI-00356527	CSI-CLI-00356542 - CSI-CLI-00356545
28	IOS 12.4	CSI-CLI-00356486 - CSI-CLI-00356489	CSI-CLI-00356705 - CSI-CLI-00356705
	IOS 15.0	CSI-CLI-00356480 - CSI-CLI-00356483	CSI-CLI-00356564 - CSI-CLI-00356567
	IOS 15.1	CSI-CLI-00356502 - CSI-CLI-00356505	CSI-CLI-00356532 - CSI-CLI-00356535

Convrighted Work	Copyright Application	Copyright Registration
IOS 15.2	CSI-CLI-00356528 - CSI-CLI-00356531	CSI-CLI-00356697 - CSI-CLI-00356700
IOS 15.4	CSI-CLI-00356657 - CSI-CLI-00356660	CSI-CLI-00356653 - CSI-CLI-00356656
IOS XR 3.0	CSI-CLI-00356665 - CSI-CLI-00356668	CSI-CLI-00356618 - CSI-CLI-00356621
IOS XR 3.2	CSI-CLI-00356661 - CSI-CLI-00356664	CSI-CLI-00356701 - CSI-CLI-00356704
IOS XR 3.3	CSI-CLI-00356689 - CSI-CLI-00356692	CSI-CLI-00356642 - CSI-CLI-00356645
IOX XR 3.4	CSI-CLI-00356634 - CSI-CLI-00356637	CSI-CLI-00356638 - CSI-CLI-00356641
IOX XR 3.5	CSI-CLI-00356685 - CSI-CLI-00356688	CSI-CLI-00356614 - CSI-CLI-00356617
IOS XR 4.3	CSI-CLI-00356681 - CSI-CLI-00356684	CSI-CLI-00356649 - CSI-CLI-00356652
IOS XR 5.2	CSI-CLI-00356626 - CSI-CLI-00356629	CSI-CLI-00356602 - CSI-CLI-00356605
IOS XE 2.1	CSI-CLI-00356693 - CSI-CLI-00356696	CSI-CLI-00356606 - CSI-CLI-00356609
IOS XE 3.5	CSI-CLI-00356610 - CSI-CLI-00356613	CSI-CLI-00356630 - CSI-CLI-00356633
NX OS 4.0	CSI-CLI-00356646 - CSI-CLI-00356648	CSI-CLI-00356622 - CSI-CLI-00356625
NX OS 5.0	CSI-CLI-00356599 - CSI-CLI-00356601	CSI-CLI-00356677 - CSI-CLI-00356680
NX OS 5.2	CSI-CLI-00356596 - CSI-CLI-00356598	CSI-CLI-00356673 - CSI-CLI-00356676
NX OS 6.2	CSI-CLI-00356593 - CSI-CLI-00356595	CSI-CLI-00356669 - CSI-CLI-00356672

Persons most knowledgeable regarding the creation of those works, including the constituent elements copied by Arista identified by Cisco in response to Arista's interrogatory No. 2, include Kirk Loughheed and Phillip Remaker.

The table below also contains additional information regarding the development of the Cisco command expressions copied by Arista, including identifying the work in which each such command expression first appeared¹ and the date that work was first distributed. This table reflects information currently available to Cisco, and Cisco reserves the right to amend or supplement the information contained in this table as additional information comes to light.

Copied Command Expression	First Operating System	First Distribution Date
aaa accounting	Cisco IOS 10.3	April 13, 1995
aaa accounting dot1x	Cisco IOS 12.4(11)T	November 2006
aaa authentication login	Cisco IOS 10.3	April 13, 1995
aaa authorization config-commands	Cisco IOS 11.2	October 1996
aaa authorization console	Cisco IOS 12.0(6)T	September 20, 1999
aaa group server radius	Cisco IOS 12.0(5)T	July 27, 1999
aaa group server tacacs+	Cisco IOS 12.0(5)T	July 27, 1999
address-family	Cisco IOS 12.0(5)T	July 27, 1999
aggregate-address	Cisco IOS 10	1993
area default-cost	Cisco IOS 10	1993

¹ Each command expression in the table was introduced at least as early as the identified "First Operating System." Records pertaining to command expressions in IOS versions earlier than 10.0 were not kept as systematically as for later versions. Cisco is continuing to search for documentation of earlier versions of its operating systems and will supplement the information in this table if necessary.

	Copied Command Expression	First Operating System	First Distribution Date
1			
2	area default-cost (OSPFv3)	NX-OS 4.0(1)	April 21, 2008
3	area nssa	Cisco IOS 10	1993
4	area nssa (OSPFv3)	NX-OS 4.0(1)	April 21, 2008
5	area nssa default-information-originate	Cisco IOS 10	1993
6	area nssa default-information-originate (OSPFv3)	NX-OS 4.0(1)	April 21, 2008
7	area nssa no-summary	Cisco IOS 10	1993
8	area nssa translate type7 always	Cisco IOS 12.2(15)T	March 17, 2003
9	area nssa translate type7 always (OSPFv3)	NX-OS 4.0(1)	April 21, 2008
10	area range	Cisco IOS 10	1993
11	area range (OSPFv3)	NX-OS 4.0(1)	April 21, 2008
12	area stub	Cisco IOS 10	1993
13	area stub (OSPFv3)	NX-OS 4.0(1)	April 21, 2008
14	arp timeout	Cisco IOS 10	1993
15	banner login	Cisco IOS 10	1993
16	banner motd	Cisco IOS 10	1993
17	bfd all-interfaces	Cisco IOS 12.2(18)SXE	April 11, 2005
18	bgp client-to-client reflection	Cisco IOS 11.1	March 1996
19	bgp cluster-id	Cisco IOS 11	September 18, 1995
20	bgp confederation identifier	Cisco IOS 10.3	April 13, 1995
21	bgp confederation peers	Cisco IOS 10.3	April 13, 1995
22	bgp listen limit	Cisco IOS 12.2(33)SXH	August 21, 2007
23	bgp log-neighbor-changes	Cisco IOS 11.1CC	November 30, 1998
24	bgp redistribute internal	Cisco IOS 12.1	March 30, 2000
25	boot system	ASM/AGS 6	May 28, 1987
26	channel-group	Cisco IOS 11.3MA	February 1998
27	class-map type control-plane	NX-OS 4.0(1)	April 21, 2008
28	clear arp-cache	ASM/AGS 5.2	July 20, 1986
29	clear counters	Cisco IOS 10	1993
30	clear ip arp	NX-OS 4.0(1)	April 21, 2008
31	clear ip bgp	Cisco IOS 10	1993
32	clear ip igmp group	Cisco IOS 10	1993
33	clear ip mfib fastdrop	Cisco IOS 12.1(8a)EW	January 16, 2002
34	clear ip mroute	Cisco IOS 10	1993
35	clear ip msdp sa-cache	Cisco IOS 12.0(7)T	December 13, 1999
36	clear ip nat translation	Cisco IOS 11.2	October 1996
37	clear ip ospf neighbor	Cisco IOS 11.1	March 1996
38	clear ipv6 neighbors	Cisco IOS 12.2(2)T	May 25, 2001
39	clear ipv6 ospf force-spf	Cisco IOS 12.0(24)S	August 26, 2003
40	clear lldp counters	Cisco IOS 12.2(33)SXH	August 21, 2007
41	clear lldp table	Cisco IOS 12.2(33)SXH	August 21, 2007
42	clear mac-address-table-dynamic	Cisco IOS 12.2(2)XT	December 3, 2001
43	clear spanning-tree counters	NX-OS 4	April 3, 2008
44	clock set	Cisco IOS 10	1993
45	clock timezone	Cisco IOS 10	1993
46	control-plane	Cisco IOS 12.2(18)S	August 21, 2003

	Copied Command Expression	First Operating System	First Distribution Date
1			
2	default-information originate (OSPF)	Cisco IOS 10	1993
3	default-information originate (OSPFv3)	Cisco IOS 15.1(3)S	July 25, 2011
4	default-metric (OSPF)	Cisco IOS 10	1993
5	default-metric (OSPFv3)	Cisco IOS 12.2(15)T	March 17, 2003
6	distance bgp	Cisco IOS 10	1993
7	domain-id	Cisco IOS 12.1(5)T	October 3, 2000
8	dot1x max-reauth-req	Cisco IOS 12.2(18)SE	February 2004
9	dot1x pae authenticator	Cisco IOS 12.3(11)T	September 20, 2004
10	dot1x port-control	Cisco IOS 12.1(6)EA2	December 19, 2001
11	dot1x reauthentication	Cisco IOS 12.2(14)SX	April 14, 2003
12	dot1x system-auth-control	Cisco IOS 12.3(2)XA	August 11, 2003
13	dot1x timeout quiet-period	Cisco IOS 12.2(14)SX	April 14, 2003
14	dot1x timeout reauth-period	Cisco IOS 12.2(25)SEC	May 3, 2006
15	dot1x timeout tx-period	Cisco IOS 12.2(14)SX	April 14, 2003
16	enable secret	Cisco IOS 11	September 18, 1995
17	erase startup config	Cisco IOS 11	September 18, 1995
18	errdisable detect cause link-flap	Cisco IOS 12.2(14)SX	April 14, 2003
19	errdisable recovery cause	Cisco IOS 12.2(14)SX	April 14, 2003
20	errdisable recovery interval	Cisco IOS 12.2(14)SX	April 14, 2003
21	flowcontrol receive	Cisco IOS 12.2(14)SX	April 14, 2003
22	flowcontrol send	Cisco IOS 12.2(14)SX	April 14, 2003
23	interface ethernet	NX-OS 4	April 3, 2008
24	interface loopback	Cisco IOS 10	1993
25	interface port-channel	Cisco IOS 11.1CA	December 3, 1998
26	interface vlan	Cisco IOS 11.3(5)T	August 13, 1998
27	ip access-group	Release 7.0/7.1	April 24, 1989
28	ip access-list	Cisco IOS 11.2	October 1996
	ip access-list standard	Cisco IOS 11.2	October 1996
	ip address	Release 7.0/7.1	April 24, 1989
	ip as-path access-list	Cisco IOS 10	1993
	ip community-list expanded	Cisco IOS 10.3	April 13, 1995
	ip community-list standard	Cisco IOS 10.3	April 13, 1995
	ip dhcp smart-relay	Cisco IOS 12.1	March 30, 2000
	ip dhcp smart-relay global	NX-OS 5.2(1)	July 29, 2011
	ip dhcp snooping	Cisco IOS 12.2(18)SXE	April 11, 2005
	ip dhcp snooping information option	Cisco IOS 12.2(18)SXE	April 11, 2005
	ip dhcp snooping vlan	Cisco IOS	April 11, 2005

	Copied Command Expression	First Operating System	First Distribution Date
1		12.2(18)SXE	
2	ip domain lookup	Cisco IOS 10	1993
3	ip domain-name	Cisco IOS 10	1993
4	ip extcommunity-list expanded	Cisco IOS 12.1	March 30, 2000
5	ip extcommunity-list standard	Cisco IOS 12.1	March 30, 2000
6	ip helper-address	Release 7.0/7.1	April 24, 1989
7	ip host	Release 8.0	November 7, 1989
8	ip http client source-interface	Cisco IOS 12.3(7)T	March 1, 2004
9	ip icmp redirect	Cisco IOS 12	September 1998
10	ip igmp last-member-query-count	Cisco IOS 12.1	March 30, 2000
11	ip igmp last-member-query-interval	Cisco IOS 12.1	March 30, 2000
12	ip igmp query-interval	Cisco IOS 10.2	October 4, 1994
13	ip igmp query-max-response-time	Cisco IOS 11.1	March 1996
14	ip igmp snooping	Cisco IOS 12.0(5.2)WC(1)	April 2001
15	ip igmp snooping querier	Cisco IOS 12.2(14)SX	April 14, 2003
16	ip igmp snooping vlan	Cisco IOS 12.0(5.2)WC(1)	April 2001
17	ip igmp snooping vlan immediate-leave	Cisco IOS 12.0(5.2)WC(1)	April 2001
18	ip igmp snooping vlan mrouter	Cisco IOS 12.0(5.2)WC(1)	April 2001
19	ip igmp snooping vlan static	Cisco IOS 12.0(5.2)WC(1)	April 2001
20	ip igmp startup-query-count	NX-OS 4.0(1)	April 21, 2008
21	ip igmp startup-query-interval	NX-OS 4.0(1)	April 21, 2008
22	ip igmp static-group	Cisco IOS 11.2	October 1996
23	ip igmp version	Cisco IOS 11.1	March 1996
24	ip load-sharing	Cisco IOS 11.2GS	July 17, 1998
25	ip local-proxy-arp	Cisco IOS 12.1(5c)EX	March 13, 2001
26	ip msdp cache-sa-state	Cisco IOS 12.0(7)T	December 13, 1999
27	ip msdp default-peer	Cisco IOS 12.0(7)T	December 13, 1999
28	ip msdp description	Cisco IOS 12.0(7)T	December 13, 1999
29	ip msdp group-limit	NX-OS 4.0(1)	April 21, 2008
30	ip msdp keepalive	Cisco IOS 12.1(8a)E4	September 5, 2001
31	ip msdp mesh-group	Cisco IOS 12.0(7)T	December 13, 1999
32	ip msdp originator-id	Cisco IOS 12.0(7)T	December 13, 1999
33	ip msdp peer	Cisco IOS 12.0(7)T	December 13, 1999
34	ip msdp sa-filter in	Cisco IOS 12.0(7)T	December 13, 1999
35	ip msdp sa-filter out	Cisco IOS 12.0(7)T	December 13, 1999
36	ip msdp sa-limit	Cisco IOS 12.1(7)	January 30, 2001
37	ip msdp shutdown	Cisco IOS 12.0(7)T	December 13, 1999
38	ip msdp timer	Cisco IOS 12.1(8a)E4	September 5, 2001
39	ip multicast boundary	Cisco IOS 11.1	March 1996
40	ip multicast-routing	Cisco IOS 10	1993
41	ip name-server	Release 8.0	September 14, 1989
42	ip nat pool	Cisco IOS 11.2	October 1996

	Copied Command Expression	First Operating System	First Distribution Date
1			
2	ip nat translation tcp-timeout	Cisco IOS 11.2	October 1996
3	ip nat translation udp-timeout	Cisco IOS 11.2	October 1996
4	ip ospf authentication	Cisco IOS 12	September 1998
5	ip ospf authentication-key	Cisco IOS 10	1993
6	ip ospf bfd	Cisco IOS 12.2(18)SXE	April 11, 2005
7	ip ospf cost	Cisco IOS 10	1993
8	ip ospf dead-interval	Cisco IOS 10	1993
9	ip ospf hello-interval	Cisco IOS 10	1993
10	ip ospf message-digest-key	Cisco IOS 11	September 18, 1995
11	ip ospf name-lookup	Cisco IOS 10	1993
12	ip ospf network	Cisco IOS 10	1993
13	ip ospf priority	Cisco IOS 10	1993
14	ip ospf retransmit-interval	Cisco IOS 10	1993
15	ip ospf shutdown	Cisco IOS 12.2(33)SRC	January 14, 2008
16	ip ospf transmit-delay	Cisco IOS 10	1993
17	ip pim anycast-rp	NX-OS 4.0(1)	April 21, 2008
18	ip pim bfd	NX-OS 5.0(2)	May 24, 2010
19	ip pim bfd-instance	NX-OS 5.0(2)	May 24, 2010
20	ip pim bsr-border	Cisco IOS 11.3T	December 15, 1997
21	ip pim bsr-candidate	Cisco IOS 11.3T	December 15, 1997
22	ip pim dr-priority	Cisco IOS 12.1(2)T	April 26, 2000
23	ip pim log-neighbor-changes	Cisco IOS 12.4(24)T	February 2009
24	ip pim neighbor-filter	Cisco IOS 11.3	December 1997
25	ip pim query-interval	Cisco IOS 10	1993
26	ip pim register-source	Cisco IOS 12.0(8)T	December 13, 1999 - April 26, 2005
27	ip pim rp-address	Cisco IOS 10.2	October 4, 1994
28	ip pim rp-candidate	Cisco IOS 11.3T	December 15, 1997
29	ip pim sparse-mode	Cisco IOS 10	1993
30	ip pim spt-threshold	Cisco IOS 11.1	March 1996
31	ip pim spt-threshold group-list	Cisco IOS 11.1	March 1996
32	ip pim ssm range	Cisco IOS 12.1(3)T	July 27, 2000
33	ip prefix-list	Cisco IOS 12.0(3)T	January 21, 1999
34	ip protocol	Cisco IOS 12.0(23)S	August 26, 2003
35	ip proxy-arp	Release 8.0	September 14, 1989
36	ip radius source-interface	Cisco IOS 11.3	December 1997
37	ip rip v2-broadcast	Cisco IOS 12.1(5)T	October 3, 2000
38	ip route	Release 8.0	September 14, 1989
39	ip routing	Release 7.0/7.1	April 24, 1989
40	ip tacacs source-interface	Cisco IOS 10	1993
41	ip-community-list standard	Cisco IOS 10.3	April 13, 1995
42	ipv6 access-list	Cisco IOS 12.2(2)T	May 25, 2001
43	ipv6 address	Cisco IOS 12.2(2)T	May 25, 2001
44	ipv6 dhcp relay destination	Cisco IOS 12.3(11)T	September 20, 2004
45	ipv6 enable	Cisco IOS 12.2(2)T	May 25, 2001
46	ipv6 host	Cisco IOS 12.2(2)T	May 25, 2001
47	ipv6 ipv6 access-group	Cisco IOS 12.4(9)XG	November 20, 2006
48	ipv6 nd managed-config-flag	Cisco IOS 12.2(2)T	May 25, 2001

	Copied Command Expression	First Operating System	First Distribution Date
1			
2	ipv6 nd ns-interval	Cisco IOS 12.2(2)T	May 25, 2001
3	ipv6 nd other-config-flag	Cisco IOS 12.2(2)T	May 25, 2001
4	ipv6 nd prefix	Cisco IOS 12.2(13)T	November 25, 2002
5	ipv6 nd ra interval	Cisco IOS 12.4(2)T	June 27, 2005
6	ipv6 nd ra lifetime	Cisco IOS 12.4(2)T	June 27, 2005
7	ipv6 nd ra suppress	Cisco IOS 12.4(2)T	June 27, 2005
8	ipv6 nd reachable-time	Cisco IOS 12.2(2)T	May 25, 2001
9	ipv6 nd router-preference	Cisco IOS 12.4(2)T	June 27, 2005
10	ipv6 neighbor	Cisco IOS 12.2(8)T	February 25, 2002
11	ipv6 ospf area	Cisco IOS 12.0(24)S	August 26, 2003
12	ipv6 ospf cost	Cisco IOS 12.0(24)S	August 26, 2003
13	ipv6 ospf dead-interval	Cisco IOS 12.0(24)S	August 26, 2003
14	ipv6 ospf hello-interval	Cisco IOS 12.0(24)S	August 26, 2003
15	ipv6 ospf network	Cisco IOS 12.0(24)S	August 26, 2003
16	ipv6 ospf priority	Cisco IOS 12.0(24)S	August 26, 2003
17	ipv6 ospf retransmit-interval	Cisco IOS 12.0(24)S	August 26, 2003
18	ipv6 ospf transmit-delay	Cisco IOS 12.0(24)S	August 26, 2003
19	ipv6 prefix-list	Cisco IOS 12.2(2)T	May 25, 2001
20	ipv6 route	Cisco IOS 12.2(2)T	May 25, 2001
21	ipv6 router ospf	Cisco IOS 12.0(24)S	August 26, 2003
22	ipv6 unicast-routing	Cisco IOS 12.2(2)T	May 25, 2001
23	isis hello-interval	Cisco IOS 10	1993
24	isis hello-multiplier	Cisco IOS 10	1993
25	isis lsp-interval	Cisco IOS 11.1	March 1996
26	isis metric	Cisco IOS 10	1993
27	isis passive	NX-OS 4.0(1)	April 21, 2008
28	isis passive-interface	NX-OS 6.2(2)	August 22, 2013
29	isis priority	Cisco IOS 10	1993
30	is-type	Cisco IOS 10.3	April 13, 1995
31	lacp port-priority	Cisco IOS 12.1(13)EW	December 23, 2002
32	lacp rate	Cisco IOS 12.2(18)SXF2	January 20, 2006
33	lacp system-priority	Cisco IOS 12.1(13)EW	December 23, 2002
34	link state group	Cisco IOS 15.1(1)S	November 23, 2010
35	link state track	Cisco IOS 15.1(1)S	November 23, 2010
36	lldp holdtime	Cisco IOS 12.2(37)SE	August 8, 2007
37	lldp receive	Cisco IOS 12.2(33)SXH	August 21, 2007
38	lldp reinit	Cisco IOS 12.2(37)SE	August 8, 2007
39	lldp run	Cisco IOS 12.2(37)SE	August 8, 2007
40	lldp timer	Cisco IOS 12.2(37)SE	August 8, 2007
41	lldp tlv-select	Cisco IOS 12.2(37)SE	August 8, 2007
42	lldp transmit	Cisco IOS 12.2(33)SXH	August 21, 2007

	Copied Command Expression	First Operating System	First Distribution Date
1			
2	load-interval	Cisco IOS 10.3	April 13, 1995
3	log-adjacency-changes	Cisco IOS 12.1	March 30, 2000
4	log-adjacency-changes (IS-IS)	NX-OS 4.0(1)	April 21, 2008
5	log-adjacency-changes (OSPFv3)	Cisco IOS 15.1(3)S	July 25, 2011
6	logging host	Cisco IOS 10	1993
7	mac access-group	Cisco IOS 12.0(32)S	January 18, 2006
8	mac access-list	NX-OS 4.0(1)	April 21, 2008
9	mac-address	Cisco IOS 10	1993
10	mac-address-table aging-time	Cisco IOS 12.0(7)XE	December 27, 1999
11	mac-address-table static	Cisco IOS 12.0(7)XE	December 27, 1999
12	max-connections	Cisco IOS 12.2(8)T	February 25, 2002
13	maximum-paths	Cisco IOS 12.2(8)T	February 25, 2002
14	maximum-paths (OSPFv3)	Cisco IOS 15.1(3)S	July 25, 2011
15	neighbor activate	Cisco IOS 11	September 18, 1995
16	neighbor allowas-in	Cisco IOS 12.0(7)T	December 13, 1999
17	neighbor default-originate	Cisco IOS 11	September 18, 1995
18	neighbor description	Cisco IOS 11.3	December 1997
19	neighbor ebgp-multihop	Cisco IOS 10	1993
20	neighbor fall-over bfd	Cisco IOS 12.2(33)SRA	June 19, 2006
21	neighbor local-as	Cisco IOS 12.0(5)S	July 13, 1999
22	neighbor next-hop-self	Cisco IOS 10	1993
23	neighbor password	Cisco IOS 11	September 18, 1995
24	neighbor peer-group (assigning members)	Cisco IOS 11	September 18, 1995
25	neighbor peer-group (creating)	Cisco IOS 11	September 18, 1995
26	neighbor remote-as	Cisco IOS 10	1993
27	neighbor remove-private-as	Cisco IOS 10.3	April 13, 1995
28	neighbor route-map	Cisco IOS 10	1993
	neighbor route-reflector-client	Cisco IOS 11.1	March 1996
	neighbor send-community	Cisco IOS 10.3	April 13, 1995
	neighbor shutdown	Cisco IOS 12	September 1998
	neighbor soft-reconfiguration	Cisco IOS 11.2	October 1996
	neighbor timers	Cisco IOS 12	September 1998
	neighbor transport connection-mode	Cisco IOS 12.4	May 2, 2005
	neighbor update-source	Cisco IOS 10	1993
	neighbor weight	Cisco IOS 10	1993
	network area	Cisco IOS 10	1993
	no snmp-server	Release 7.0/7.1	April 24, 1989
	ntp authenticate	Cisco IOS 10	1993
	ntp authentication-key	Cisco IOS 10	1993
	ntp server	Cisco IOS 10	1993
	ntp source	Cisco IOS 10	1993
	ntp trusted-key	Cisco IOS 10	1993
	passive-interface	Release 7.0/7.1	April 24, 1989
	passive-interface (OSPFv3)	Cisco IOS 15.1(3)S	July 25, 2011
	passive-interface default	Cisco IOS 12	September 1998
	policy-map type control-plane	NX-OS 4.0(1)	April 21, 2008
	policy-map type qos	NX-OS 4	April 3, 2008
	port-channel load-balance	Cisco IOS	April 14, 2003

	Copied Command Expression	First Operating System	First Distribution Date
1		12.2(14)SX	
2		Cisco IOS	
3	port-channel min-links	12.2(18)SXF	September 12, 2005
4	priority-flow-control mode	NX-OS 5.1(1)	October 25, 2010
5	private-vlan	Cisco IOS 12.2(14)SX	April 14, 2003
6	private-vlan mapping	Cisco IOS 12.2(14)SX	April 14, 2003
7	ptp domain	NX-OS 5.2(1)	July 29, 2011
8	ptp priority1	NX-OS 5.2(1)	July 29, 2011
9	ptp priority2	NX-OS 5.2(1)	July 29, 2011
10	ptp sync interval	NX-OS 5.2(1)	July 29, 2011
11	radius-server deadtime	Cisco IOS 11.1	March 1996
12	radius-server host	Cisco IOS 11.1	March 1996
13	radius-server key	Cisco IOS 11.1	March 1996
14	radius-server retransmit	Cisco IOS 11.1	March 1996
15	radius-server timeout	Cisco IOS 11.1	March 1996
16	redundancy force-switchover	Cisco IOS 12.0(16)ST	March 29, 2001
17	route-map	Cisco IOS 10	1993
18	router bgp	Release 8.0	September 14, 1989
19	router isis	Cisco IOS 10	1993
20	router ospf	Cisco IOS 10	1993
21	router rip	Cisco IOS 12.2(2)T	May 25, 2001
22	router-id	Cisco IOS 12.0(1)T	November 2, 1998
23	router-id (OSPFv3)	Cisco IOS 15.1(3)S	July 25, 2011
24	routing-context vrf	NX-OS 4.0(1)	April 21, 2008
25	service sequence-numbers	Cisco IOS 12	September 1998
26	set-overload-bit	Cisco IOS 11.2	October 1996
27	show aaa method-lists	Cisco IOS 12.2(8)T	February 25, 2002
28	show aaa sessions	Cisco IOS 15.0(2)EX	June 22, 2013
29	show arp	ASM/AGS 5.2	July 20, 1986
30	show bfd neighbors	Cisco IOS 12.0(31)S	April 20, 2005
31	show clock	Cisco IOS 10	1993
32	show dot1q-tunnel	Cisco IOS 12.2(14)SX	April 14, 2003
33	show dot1x	Cisco IOS 12.1(11)AX	May 2003
34	show dot1x all summary	Cisco IOS 12.1(14)EA1	July 25, 2003
35	show dot1x statistics	Cisco IOS 12.2(25)SEE	May 1, 2006
36	show environment all	Cisco IOS 12.2(20)S2	March 16, 2004
37	show environment cooling	Cisco IOS 12.2(14)SX	April 14, 2003
38	show environment power	NX-OS 4.2(1)	August 10, 2009
39	show environment temperature	Cisco IOS 12.2(14)SX	April 14, 2003
40	show etherchannel	Cisco IOS	December 27, 1999

	Copied Command Expression	First Operating System	First Distribution Date
1		12.0(7)XE	
2	show hostname	NX-OS 4.0(1)	April 21, 2008
3	show hosts	ASM/AGS 5.2	July 20, 1986
4	show interfaces	ASM/AGS 5.2	July 20, 1986
5	show interfaces capabilities	Cisco IOS 12.2(14)SX	April 14, 2003
6	show interfaces description	Cisco IOS 12.2(14)SX	April 14, 2003
7	show interfaces flowcontrol	Cisco IOS 12.2(14)SX	April 14, 2003
8	show interfaces private-vlan mapping	Cisco IOS 12.2(14)SX	April 14, 2003
9	show interfaces status	Cisco IOS 12.2(14)SX	April 14, 2003
10	show interfaces switchport	Cisco IOS 12.2(14)SX	April 14, 2003
11	show interfaces switchport backup	Cisco IOS 12.2(18)SXF	September 12, 2005
12	show interfaces transceiver	Cisco IOS 12.2(17d)SXB2	July 21, 2004
13	show interfaces trunk	Cisco IOS 12.2(14)SX	April 14, 2003
14	show inventory	Cisco IOS 12.3(4)T	November 3, 2003
15	show ip access-lists	Cisco IOS 10.3	April 13, 1995
16	show ip arp	Cisco IOS 9	December 1992
17	show ip bgp	Cisco IOS 10	1993
18	show ip bgp community	Cisco IOS 10.3	April 13, 1995
19	show ip bgp neighbors	Cisco IOS 10	1993
20	show ip bgp paths	Cisco IOS 10	1993
21	show ip bgp peer-group	Cisco IOS 11	September 18, 1995
22	show ip bgp regexp	Cisco IOS 10	1993
23	show ip bgp summary	Cisco IOS 10	1993
24	show ip community-list	Cisco IOS 11	September 18, 1995
25	show ip dhcp snooping	Cisco IOS 12.2(18)SXE	April 11, 2005
26	show ip extcommunity-list	Cisco IOS 12.1	March 30, 2000
27	show ip helper-address	Cisco IOS 12.3(2)T	July 28, 2003
28	show ip igmp groups	Cisco IOS 10	1993
29	show ip igmp interface	Cisco IOS 10	1993
30	show ip igmp snooping	Cisco IOS 12.0(5.2)WC(1)	April 2001
31	show ip igmp snooping groups	Cisco IOS 12.4(15)T	June 29, 2007
32	show ip igmp snooping mrouter	Cisco IOS 12.0(5.2)WC(1)	April 2001
33	show ip igmp snooping querier	NX-OS 4.0(1)	April 21, 2008
34	show ip interface	Release 7.0/7.1	April 24, 1989
35	show ip interface brief	Cisco IOS 10	1993
36	show ip mfib	Cisco IOS XE 2.1	May 5, 2008
37	show ip mroute	Cisco IOS 10	1993
38	show ip mroute count	Cisco IOS 10	1993
39	show ip msdp mesh-group	NX-OS 4.0(1)	April 21, 2008

	Copied Command Expression	First Operating System	First Distribution Date
1			
2	show ip msdp peer	Cisco IOS 12.0(7)T	December 13, 1999
3	show ip msdp rpf-peer	Cisco IOS 12.3(4)T	November 3, 2003
4	show ip msdp sa-cache	Cisco IOS 12.0(7)T	December 13, 1999
5	show ip msdp summary	Cisco IOS 12.0(7)T	December 13, 1999
6	show ip nat translations	Cisco IOS 11.2	October 1996
7	show ip ospf	Cisco IOS 10	1993
8	show ip ospf border-routers	Cisco IOS 10	1993
9	show ip ospf database database-summary	Cisco IOS 11	September 18, 1995
10	show ip ospf interface	Cisco IOS 10	1993
11	show ip ospf neighbor	Cisco IOS 10	1993
12	show ip ospf request-list	Cisco IOS 10.2	October 4, 1994
13	show ip ospf retransmission-list	Cisco IOS 10.2	October 4, 1994
14	show ip pim interface	Cisco IOS 10	1993
15	show ip pim neighbor	Cisco IOS 10	1993
16	show ip pim rp	Cisco IOS 10.2	October 4, 1994
17	show ip pim rp-hash	Cisco IOS 11.3T	December 15, 1997
18	show ip prefix-list	Cisco IOS 12	September 1998
19	show ip rip database	Cisco IOS 12.0(6)T	September 20, 1999
20	show ip rip neighbors	Cisco IOS XE 3.3	March 30, 2011
21	show ip route	Cisco IOS 9.2	1992-1995
22	show ip route summary	Cisco IOS 10	1993
23	show ip route tag	Cisco IOS 15.2(2)S	March 30, 2012
24	show ipv6 access-list	Cisco IOS 12.2(2)T	May 25, 2001
25	show ipv6 bgp	NX-OS 4.0(1)	April 21, 2008
26	show ipv6 bgp community	NX-OS 4.0(1)	April 21, 2008
27	show ipv6 bgp neighbors	NX-OS 4.0(1)	April 21, 2008
28	show ipv6 bgp summary	NX-OS 4.0(1)	April 21, 2008
29	show ipv6 interface	Cisco IOS 12.2(2)T	May 25, 2001
30	show ipv6 neighbors	Cisco IOS 12.2(2)T	May 25, 2001
31	show ipv6 ospf	Cisco IOS 12.0(24)S	August 26, 2003
32	show ipv6 ospf border-routers	Cisco IOS 12.0(24)S	August 26, 2003
33	show ipv6 ospf interface	Cisco IOS 12.0(24)S	August 26, 2003
34	show ipv6 ospf neighbor	Cisco IOS 12.0(24)S	August 26, 2003
35	show ipv6 prefix-list	Cisco IOS 12.2(2)T	May 25, 2001
36	show ipv6 route	Cisco IOS 12.2(2)T	May 25, 2001
37	show ipv6 route summary	Cisco IOS 12.2(2)T	May 25, 2001
38	show ipv6 route tag	Cisco IOS 15.2(2)S	March 30, 2012
39	show isis database	Cisco IOS 10	1993
40	show isis interface	NX-OS 4.0(1)	April 21, 2008
41	show isis topology	Cisco IOS 12.0(26)S	August 26, 2003
42	show lacp counters	NX-OS 4	April 3, 2008
43	show lacp interface	NX-OS 4	April 3, 2008
44	show lacp neighbor	NX-OS 4	April 3, 2008
45	show link state group	Cisco IOS 15.1(1)S	November 23, 2010
46	show lldp	Cisco IOS 12.2(33)SXH	August 21, 2007
47	show lldp neighbors	Cisco IOS 12.2(33)SXH	August 21, 2007
48	show lldp traffic	Cisco IOS 12.2(33)SXH	August 21, 2007
49	show mac access-lists	NX-OS 4.0(1)	April 21, 2008

	Copied Command Expression	First Operating System	First Distribution Date
1			
2	show mac-address-table	Cisco IOS 11.2(8)SA3	1997- 2002
3	show mac-address-table aging time	Cisco IOS 11.2(8)SA3	1997- 2002
4	show mac-address-table count	Cisco IOS 11.2(8)SA3	1997- 2002
5	show module	Cisco IOS 12.2(14)SX	April 14, 2003
6	show monitor session	Cisco IOS 12.2(14)SX	April 14, 2003
7	show ntp associations	Cisco IOS 10	1993
8	show ntp status	Cisco IOS 10	1993
9	show policv-map control-plane	Cisco IOS 12.2(18)S	August 21, 2003
10	show policy-map interface	Cisco IOS 12.0(5)T	July 27, 1999
11	show policy-map interface control-plane	NX-OS 6.2(2)	August 22, 2013
12	show port-channel summary	NX-OS 4	April 3, 2008
13	show port-channel traffic	NX-OS 4	April 3, 2008
14	show port-security	Cisco IOS 12.2(14)SX	April 14, 2003
15	show port-securityv address	Cisco IOS 12.2(18)SXE	April 11, 2005
16	show port-security interface	Cisco IOS 12.2(14)SX	April 14, 2003
17	show privilege	Cisco IOS 10.3	April 13, 1995
18	show ptp clock	NX-OS 5.2(1)	July 29, 2011
19	show ptp parent	NX-OS 5.2(1)	July 29, 2011
20	show ptp time-property	NX-OS 5.2(1)	July 29, 2011
21	show qos maps	Cisco IOS 12.1(8a)EW	January 16, 2002
22	show radius	NX-OS 4.0(1)	April 21, 2008
23	show redundancy states	Cisco IOS 12.2(20)S	October 29, 2003
24	show reload	Cisco IOS 11.2	October 1996
25	show role	NX-OS 4.0(1)	April 21, 2008
26	show route-map	Cisco IOS 10	1993
27	show snmp	Cisco IOS 10	1993
28	show snmp chassis	Cisco IOS 12.4(12)T	June 29, 2007
29	show snmp community	Cisco IOS 12.4(12)T	June 29, 2007
30	show snmp contact	Cisco IOS 12.4(12)T	June 29, 2007
31	show snmp engineID	Cisco IOS 12.0(3)T	January 21, 1999
32	show snmp group	Cisco IOS 12.0(3)T	January 21, 1999
33	show snmp host	Cisco IOS 12.4(12)T	June 29, 2007
34	show snmp location	Cisco IOS 12.4(12)T	June 29, 2007
35	show snmp mib	Cisco IOS 12.2(2)T	May 25, 2001
36	show snmp source-interface	NX-OS 4.2(1)	August 10, 2009
37	show snmp trap	NX-OS 4.0(1)	April 21, 2008
38	show snmp user	Cisco IOS 12.0(3)T	January 21, 1999
39	show snmp view	Cisco IOS 12.4(2)T	June 27, 2005
40	show spanning-tree	Cisco IOS 12.0(1)T	November 2, 1998
41	show spanning-tree blockedports	NX-OS 4	April 3, 2008
42	show spanning-tree bridge	NX-OS 4	April 3, 2008
43	show spanning-tree interface	NX-OS 4	April 3, 2008

	Copied Command Expression	First Operating System	First Distribution Date
1			
2	show spanning-tree mst	Cisco IOS 12.2(14)SX	April 14, 2003
3	show spanning-tree mst configuration	NX-OS 4	April 3, 2008
4	show spanning-tree mst interface	NX-OS 4	April 3, 2008
5	show spanning-tree root	NX-OS 4	April 3, 2008
6	show storm-control	Cisco IOS 12.2(2)XT	December 3, 2001
7	show tacacs	Cisco IOS 11.2	October 1996
8	show track	Cisco IOS 12.2(15)T	March 17, 2003
9	show user-account	NX-OS 4.0(1)	April 21, 2008
10	show users	ASM/AGS 5.2	July 20, 1986
11	show version	Cisco IOS 9	December 1992
12	show vlan	Cisco IOS 12.2(14)SX	April 14, 2003
13	show vlan internal usage	Cisco IOS 12.2(14)SX	April 14, 2003
14	show vlan private-vlan	Cisco IOS 12.2(14)SX	April 14, 2003
15	show vlan summary	NX-OS 4	April 3, 2008
16	show vrf	Cisco IOS 12.2(33)SRB	February 28, 2007
17	show vrrp	Cisco IOS 12.0(18)ST	June 4, 2001
18	snmp trap link-status	Cisco IOS 10	1993
19	snmp-server chassis-id	Cisco IOS 10	1993
20	snmp-server community	Release 7.0/7.1	April 24, 1989
21	snmp-server contact	Cisco IOS 10	1993
22	snmp-server enable traps	Cisco IOS 10.3	April 13, 1995
23	snmp-server engineID local	Cisco IOS 12.0(3)T	January 21, 1999
24	snmp-server engineID remote	Cisco IOS 12.0(3)T	January 21, 1999
25	snmp-server group	Cisco IOS 11.(3)T	December 15, 1997
26	snmp-server host	Release 7.0/7.1	April 24, 1989
27	snmp-server location	Cisco IOS 10	1993
28	snmp-server source-interface	Cisco IOS 12.2(18)SXB2	March 2004-September 2006
29	snmp-server user	Cisco IOS 12.0(3)T	January 21, 1999
30	snmp-server view	Cisco IOS 10	1993
31	spanning-tree bpdudfilter	Cisco IOS 12.2(14)SX	April 14, 2003
32	spanning-tree bpduguard	Cisco IOS 12.2(14)SX	April 14, 2003
33	spanning-tree bridge assurance	Cisco IOS 12.2(33)SXI	November 11, 2008
34	spanning-tree cost	Cisco IOS 12.0(7)XE	December 27, 1999
35	spanning-tree guard	Cisco IOS 12.2(14)SX	April 14, 2003
36	spanning-tree link-type	Cisco IOS 12.2(14)SX	April 14, 2003
37	spanning-tree loopguard default	Cisco IOS 12.2(14)SX	April 14, 2003

	Copied Command Expression	First Operating System	First Distribution Date
1			
2	spanning-tree mode	Cisco IOS 12.2(14)SX	April 14, 2003
3	spanning-tree mst configuration	Cisco IOS 12.2(14)SX	April 14, 2003
4	spanning-tree portfast bpdupfilter default	Cisco IOS 12.2(14)SX	April 14, 2003
5	spanning-tree portfast bpduguard default	Cisco IOS 12.2(14)SX	April 14, 2003
6	spanning-tree port-priority	Cisco IOS 12.0(7)XE	December 27, 1999
7	spanning-tree transmit hold-count	Cisco IOS 12.2(18)SXF	September 12, 2005
8	spanning-tree vlan	Cisco IOS 12.0(7)XE	December 27, 1999
9	spf-interval	Cisco IOS 10.3	April 13, 1995
10	statistics per-entry	NX-OS 4.0(1)	April 21, 2008
11	storm-control	Cisco IOS 12.2(2)XT	December 3, 2001
12	switchport access vlan	Cisco IOS 12.2(14)SX	April 14, 2003
13	switchport backup interface	Cisco IOS 12.2(18)SXF	September 12, 2005
14	switchport mode	Cisco IOS 12.0(7)XE	December 27, 1999
15	switchport port-security	Cisco IOS 12.2(14)SX	April 14, 2003
16	switchport port-security maximum	Cisco IOS 12.2(14)SX	April 14, 2003
17	switchport private-vlan mapping	Cisco IOS 12.2(14)SX	April 14, 2003
18	switchport trunk allowed vlan	Cisco IOS 12.0(7)XE	December 27, 1999
19	switchport trunk native vlan	Cisco IOS 12.0(7)XE	December 27, 1999
20	switchport vlan mapping	Cisco IOS 12.2(17b)SXA	December 31, 2003
21	tacacs-server host	Release 7.0/7.1	April 24, 1989
22	tacacs-server key	Cisco IOS 11.1	March 1996
23	tacacs-server timeout	Release 7.0/7.1	April 24, 1989
24	terminal length	ASM/AGS 5.2	July 20, 1986
25	terminal monitor	Release 8.0	September 14, 1989
26	timers basic (RIP)	Release 8.0	September 14, 1989
27	timers bgp	Cisco IOS 10	1993
28	timers lsa arrival	Cisco IOS 12.0(24)S	August 26, 2003
	timers throttle lsa all	Cisco IOS 12.0(24)S	August 26, 2003
	timers throttle spf	Cisco IOS 12.2(14)S	January 30, 2003
	username sshkey	NX-OS 4.1(2)	December 18, 2008
	vlan internal allocation policy	Cisco IOS 12.2(14)SX	April 14, 2003
	vrf definition	Cisco IOS 12.2(33)SRB	February 28, 2007

Copied Command Expression	First Operating System	First Distribution Date
vrf forwarding	Cisco IOS 12.2(33)SRB	February 28, 2007
vrrp authentication	Cisco IOS 12.0(18)ST	June 4, 2001
vrrp delay reload	Cisco IOS XE 2.6	February 26, 2010
vrrp description	Cisco IOS 12.0(18)ST	June 4, 2001
vrrp ip	Cisco IOS 12.0(18)ST	June 4, 2001
vrrp ip secondary	Cisco IOS 12.0(18)ST	June 4, 2001
vrrp preempt	Cisco IOS 12.0(18)ST	June 4, 2001
vrrp priority	Cisco IOS 12.0(18)ST	June 4, 2001
vrrp shutdown	Cisco IOS 12.3(11)T	September 20, 2004
vrrp timers advertise	Cisco IOS 12.0(18)ST	June 4, 2001
vrrp track	Cisco IOS 12.3(2)T	July 28, 2003

Mr. Loughheed is personally knowledgeable about the creation of the following command expressions, for the creation of which he was responsible:

arp timeout
banner login
banner motd
boot system
clear arp-cache
clear ip arp
clear ip bgp
distance bgp
interface ethernet
interface loopback
ip access-list
ip access-list standard
ip address
ip domain lookup
ip domain-name
ip helper-address
ip host
ip name-server
ip route
ip routing
router bgp
router rip
show arp
show hostname
show hosts
show interfaces
show ip access-lists

show ip arp
show ip bgp
show ip interface
terminal length

The table below identifies Cisco hardware products that supported operating systems identified above. The information below is provided with respect to master versions of Cisco's operating systems—not with respect to particular code releases, which information is not kept in the ordinary course of business and is unduly burdensome to obtain. This table reflects information currently available to Cisco, and Cisco reserves the right to amend or supplement the information contained in this table as additional information comes to light.

OPERATING SYSTEM	PLATFORMS
IOS 10.0	Cisco 7000 Series Router
	Cisco 4000 Series Router (including Cisco 4000 and Cisco 4000-M)
	Cisco 3000 Series Router
	Cisco 3101
	Cisco 3102
	Cisco 3103
	Cisco 3104
	Cisco 3204
	Cisco 2500 Series Router (except Cisco 2520 through Cisco 2523)
	AccessPro PC Card for IBM PC
	AGS+ (with a CSC/4 processor board)
	MGS (with a CSC/4 processor board)
	CGS (with a CSC/4 processor board)
	IGS L/R/TR
IOS 10.2	Cisco 7000 Series Router
	Cisco 7010
	Cisco 4000 Series Router (including Cisco 4000, Cisco 4000-M, Cisco 4500, Cisco 4500-M, Cisco 4700)
	Cisco 3000 Series Router (except the Cisco 3202)
	Cisco 2500 Series Router (Cisco 2501 through Cisco 2516)
	Cisco 1000 Series LAN Extender
	AccessPro PC card
	AGS and AGS+ (with a CSC/4 processor board)
	MGS (with a CSC/4 processor board)
	CGS (with a CSC/4 processor board)
IOS 10.3	Cisco 7000 Series Router
	Cisco 4000 Series Router (including Cisco 4000, Cisco 4000-M, Cisco 4500-M, and Cisco 4700)
	Cisco 3000 Series Router (except the Cisco 3202)
	Cisco 2500 Series Router (except Cisco 2520 through Cisco 2525)

OPERATING SYSTEM	PLATFORMS
	Cisco 1000 Series Router (including Cisco 1003, Cisco 1004, Cisco 1005)
	Cisco 1000 LAN Extender
	AccessPro PC Card
	AGS+ (with a CSC/4 processor board)
	MGS (with a CSC/4 processor board)
	CGS (with a CSC/4 processor board)
IOS 11.0	Cisco 1003 ISDN Router
	Cisco 1004 ISDN Router
	Cisco 1005 Router
	Cisco 2500 Series
	Cisco 3000 Series (but not 3202)
	4000 Series Router (including Cisco 4000, 4000-M, 4500, 4500-M, 4700 & 4700-M)
	4000-M Series
	4500 Series
	4500-M Series
	4700 Series
	4700-M Series
	7000 Series Router
	7000 Series with RSP7000 Router platform
	7500 Series Router
	AGS+ (with a CSC/4 processor board)
	MGS (with a CSC/4 processor board)
	CGS (with a CSC/4 processor board)
	ASM-CS Access Server Platform
	2500 Series Access Server Platform
	AS5100 Access Server Platform
IOS 11.1	Cisco 1003 ISDN Routers
	Cisco 1004 ISDN Routers
	1005 Router
	Cisco 1600 Series Routers
	Cisco 2500 Series
	Cisco 3000 Series (except Cisco 3202)
	Cisco 3600 Series Routers
	Cisco 4000 Series (including Cisco 4000, 4000-M, 4500, 4500-M, 4700 & 4700-M)
	Cisco 7000 Series Routers with RSP7000 (Route Switch Processor) & RSP7000CI (Chassis Interface) (including Cisco 7000 & 7010)
	Cisco 7200 Series Routers (including Cisco 7202, 7204 & 7206)
	Cisco 7500 Series Routers ("including" Cisco 7505, 7507 & 75013 [sic])
	1000 LAN Extender
	AS5100
	AS5200 Access Servers
IOS 11.2	Certain features of CPA4500 Router
	Certain features of CPA4700 Router
IOS 11.2	Cisco 1003 ISDN Routers
	Cisco 1004 ISDN Routers

OPERATING SYSTEM	PLATFORMS
	1005 Router
	Cisco 1600 Series Routers (including Cisco 1601, 1602, 1603 & 1604)
	Cisco 3000 Series (except Cisco 3202)
	Cisco 3600 Series Routers (including Cisco 3640 & 3620)
	Cisco 3800 Series
	Cisco 4000 Series Routers (including Cisco 4500, 4500-M, 4700 & 4700-M)
	Cisco 7000 Series (including RSP7000 & RSP7000CI)
	Cisco 7200 (including Cisco 7206 & 7204)
	Cisco 7500 Series (including Cisco 7505, 7507 & 7513)
	Cisco AS2509-RJ & Cisco AS2511-RJ Access Servers
	Cisco AS5100
	Cisco AS5200 Universal Access Server
	Cisco 1000 LAN Extender
	Cisco 2500 Fixed FRAD Series (including Cisco 2501FRAD-FX, Cisco 2501LANFRAD-FX, and Cisco 2502LANFRAD-FX)
IOS 11.3	Cisco 3011 WAN module (a router card that is installed in the Catalyst 3200 switch)
	Cisco 1003 ISDN Router
	Cisco 1004 ISDN Router
	Cisco 1005 Router
	Cisco 1600 Series (including Cisco 1601, 1602, 1603, & 1604)
	Cisco 2500 Series (including Cisco 2501, 2502, 2503, 2504, 2505, 2507, 2516, 2520, 2521, 2522, 2523, 2513, 2514, 2515, 2524, 2525, AS2509, AS2511, AS2512, AS2509-RJ, AS2511-RJ, & 2509-ET)
	Cisco 3011 Router
	Cisco 3600 Series (including Cisco 3640 & 3620)
	Cisco 4000 Series (including Cisco 4000, 4000-M, 4500, 4500-M, 4700, & 4700-M)
	Cisco 7200 Series (including Cisco 7204 & 7206)
	Cisco 7500/RSP Series (including Cisco 7000 equipment with RSP7000 processor; Cisco 7010 equipped with RSP7000 processor; Cisco 7505, 7507, & 7513)
	Cisco AS5100 Access Server
IOS 12.0	Cisco AS5200 Access Server
	AccessPro PC Card
	Cisco 800 Series Routers (including Cisco 801, 802, 802 IDSL, 803, 804, 804 IDSL & 805)
	Cisco 1003 ISDN Router
	Cisco 1004 ISDN Router
	Cisco 1005 Router
	Cisco 1401 Router
	Cisco 1600 Series
	Cisco 1700 Series (including Cisco 1720 & 1750 Routers)
	Cisco 2500 Series (including Single LAN Routers: Models 2502, 2503, 2504, 2520, 2521, 2522, & 2523; Mission-Specific, entry-level Routers: Models 2501CF, 2502CF,

OPERATING SYSTEM	PLATFORMS
	<p>2503I, 2504I, 2520CF, 2520LF, 2521CF, 2521LF, 2522CF, 2522LF, 2523CF, & 2523LF; Router/hub combinations: Models 2505, 2507 & 2516; Access Servers: Models 2509 to 2512; Dual LAN Routers: Models 2513, 2514 & 2515; Modular Routers: Models 2524 & 2525 (optional integrated DSU/CSU or NT-1))</p> <p>Cisco 2600 Series (including Cisco 2610, 2611, 2612, 2613, 2620 & 2621 Routers)</p> <p>Cisco 3600 Series (including Cisco 3620, 3640, 3661 & 3662 Routers)</p> <p>Cisco 4000 Series (including Cisco 4000, 4000-M, 4500, 4500-M, 4700 & 4700-M Routers)</p> <p>Cisco 7000 Series Routers (including Cisco 7000 & 7010) upgraded with the 7000 Series Route Switch Processor (RSP7000) & 7000 Series Chassis Interface (RSP7000CI))</p> <p>Cisco 7200 Series (including Cisco 7202, 7204 & 7206 Routers)</p> <p>Cisco 7200VXR (including Cisco 7204VXR & 7206VXR Routers)</p> <p>Cisco 7500 Series (including Cisco 7505, 7507, 7513 & 7576)</p> <p>Cisco 7500 RSPx Series</p> <p>Cisco 10000 Series (including Cisco 10005 & 10008)</p> <p>Cisco 12000 Series (including Cisco 12008, 12012, 12016, 12410 & 12416)</p> <p>Cisco MC3810</p> <p>Cisco Catalyst 5000 Series</p> <p>Cisco Catalyst 2950 Switch</p> <p>Cisco AS5200 Series</p> <p>Cisco AS5300 Series</p> <p>Cisco AS5800 Series</p> <p>Cisco 10720 Internet Router</p> <p>Cisco uBR7200 Series Cable Routers (including Cisco uBR7223, uBR7246 & uBR7246 VXR)</p>
IOS 12.1	<p>Cisco 800 Series (including 801, 802, 803, 804, 805 Routers)</p> <p>Cisco 1000 Series (including Cisco 1003 & 1004 ISDN Routers; Cisco 1005 Serial Router)</p> <p>Cisco 1400 Series (including Cisco 1401 & 1417 routers)</p> <p>Cisco 1600 Series (including Cisco 1601, 1601-R, 1602, 1602-R, 1603, 1603-R, 1604, 1604-R, 1605-R Routers)</p> <p>Cisco 1700 Series (including Cisco 1720, 1750 Routers)</p> <p>Cisco 2500 Series (including Single LAN Routers: Models 2502, 2503, 2504, 2520, 2521, 2522, & 2523; Mission Specific, Entry-level Routers: Models 2501CF, 2502CF, 2503I, 2504I, 2520CF, 2520LF, 2521CF, 2521LF, 2522CF, 2522LF, 2523CF & 2523LF; Router/Hub Combinations: Models 2505, 2507 & 2516; Access Servers: Models 2509 to 2512; Dual LAN Routers: Models 2513, 2514, & 2515; Modular Routers: Models 2524 & 2525 (optional integrated DSU/CSU or NTI Modular Routers))</p> <p>Cisco 2600 Series (including Cisco 2610, 2611, 2612, 2613,</p>

OPERATING SYSTEM	PLATFORMS
	2620, 2621 Routers)
	Cisco 3600 Series (including Cisco 3620, 3640, 3660, 3661 & 3662 Routers)
	Cisco 4000 Series (including Cisco 4000, 4000-M, 4500, 4500-M, 4700, 4700-M)
	Cisco 7000 Family (including Cisco 7200VXR Routers-7204VXR & 7206VXR; Cisco 7200 Series Routers-7202, 7204 & 7206; Cisco 7500 Series Routers-7505, 7507, 7513 & 7576; Cisco 7000 Series Routers-7000, 7010-as upgraded with the 7000 series Route Switch Processor [RSP7000] & 7000 Series Chassis Interface [RSP7000CI])
	Cisco uBR900 Series (including uBR904
	Cisco uBR920 Series (including uBR924)
	Cisco uBR7200 Universal Broadband Router (including Cisco uBR7223, uBR7246 & uBR7246 VXR)
	Cisco Catalyst 3750 Switch
	Cisco Catalyst 5000 Family RSM/VIP2 (including Catalyst 5000, 5002 & 5500 Switches)
	Cisco Catalyst 5000 RSFC (including Catalyst 5000, 5002 & 5500 Switches)
	Cisco AS5200 Universal Access Server
	Cisco AS5300 Universal Access Server
	Cisco AS5800 Universal Access Server (including Cisco DS5814, RS7206 & RS7206 VXR)
	Cisco 15104 Optical Networking System
	Cisco MGX 8850 Route Processor Module
	Cisco MC3810 Multiservice Access Concentrator
IOS 12.2	Cisco 800 Series Routers (including Cisco 801, 802, 803, 804, 805, 806, 811, 813, 826, 827, 827-4V, 827-V, 828)
	Cisco 820 Series Routers (including Cisco 826, 827 & 827-4V)
	Cisco 1400 Series Routers (including Cisco 1401, 1417)
	Cisco 1600/1600R Series Routers (including Cisco 1601, 1601-R, 1602, 1602-R, 1603, 1603-R, 1604, 1604-R, 1605-R)
	Cisco 1700 Series Routers (including Cisco 1710, 1720, 1721, 1750, 1751, 1751-V)
	Cisco 2500 Series Routers (including Single LAN Routers: Models 2502, 2503, 2504, 2520, 2521, 2522 & 2523; Mission-Specific, entry-level routers: Models 2501CF, 2502CF, 2503I, 2520CF, 2520LF, 2521CF, 2521LF, 2522CF, 2522LF, 2523CF & 2523LF; Router/Hub Combinations: Models 2505, 2507 & 2516; Access Servers: Models 2509 & 2512; Dula LAN Routers: Models 2513, 2514 & 2515; Modular Routers: Models 2524 & 2525 (optional integrated DSU/CSU or NT-1))
	Cisco 2600 Series Routers (including Cisco 2610, 2611, 2612, 2613, 2620, 2621, 2650 & 2651)
	Cisco 3600 Series Routers (including Cisco 3620, 3631, 3640, 3660, 3661, 3662)
	Cisco 3700 Series Routers (including Cisco 3725 & 3745)
	Cisco 4000 Series Routers

OPERATING SYSTEM	PLATFORMS
	Cisco 6400
	Cisco 7000 Family Routers (including Cisco 7000, 7010, 7100, 7120, 7140)
	Cisco 7200 Series (including 7202, 7204, 7204VXR, 7206, 7206VXR)
	Cisco 7301 Router
	Cisco 7304 Routers (including 7304-NSE-100, 7304-NPE-G100)
	Cisco 7400 Series Routers (including Cisco 7401 ASR-BB, 7401 ASR-CP)
	Cisco 7500 Series Routers (Including Cisco 7505, 7507, 7513, 7576)
	Cisco 10000 Series Routers, Performance Routing Engine 2 through 4
	Cisco uBR900 Series
	Cisco uBR905 Series Cable Access Routers
	Cisco uBR924 Cable Access Router
	Cisco uBR925 Series Cable Access Routers
	Cisco uBR7100 Series
	Cisco uBR7200 Series Universal Broadband Routers (including Cisco uBR7223, uBR7246, uBR7246 VXR)
	Cisco uBR10012 Universal Broadband Router
	Cisco Catalyst 2960 Series Switches
	Cisco Catalyst 2970 Series Switches
	Cisco Catalyst 3560 Series Switches
	Cisco Catalyst 3750 Series Switches
	Cisco Catalyst 4000 Access Gateway Module
	Cisco Catalyst 4224 Access Gateway Switch
	Cisco Catalyst 4500 Series Switches
	Cisco Catalyst 4900 Series Switches
	Cisco Catalyst 5000 RSM/VIP2
	Cisco Catalyst 6500 & 6500 VSS Series Switches
	Cisco Voice Gateway 200
	Cisco MC3810 Multiservice Access Concentrator
	Cisco AS5300 Universal Access Servers
	Cisco AS5400 Universal Gateway
	Cisco AS5800 Universal Access Servers (including Cisco DS5814, RS7206 VXR)
	Cisco AS5850 Universal Gateway
	Cisco 15104 Optical Networking System
	Cisco MGX 8850 Route Processor Module
	Cisco Signaling Link Terminal
	SOHO 70 Series Routers (including SOHO 77 & 78)
	Cisco CVA120 Series (including CVA122, CVA122E)
	Cisco IAD2420 Series (including IAD2421, IAD2423)
	Cisco IGX 8400 Series URM
	Cisco 7200 VXR WAN Routers
	Cisco 7301 WAN Router
	Cisco 7304 WAN Router
	Cisco ASR 1000 Series WAN Routers
	Cisco ICS 7750

OPERATING SYSTEM	PLATFORMS
	Supervisor Engines (including CAT6000-SUP720/MSFC3 , 7600-SUP720/MSFC3 , CAT6000-SUP32/MSFC2A , 7600-SUP32/MSFC2A, CAT6000-SUP2/MSFC2 , 7600-SUP2/MSFC2)
IOS 12.3	Cisco AS5000 Series Access Servers
	Cisco AS5300 Series Access Servers
	Cisco AS5350 Series Access Servers
	Cisco AS5400 Series Access Servers
	Cisco AS5800 Series Universal Gateways
	Cisco AS5850 Access Servers
	Cisco AS5850-ERSC Access Servers
	Cisco AS5850-RSC Series Access Servers
	Cisco uBR905 Cable Access Routers
	Cisco uBR925 Cable Access Routers
	Cisco uBR7100 Series Universal Broadband Router
	Cisco uBR7200 Series Universal Broadband Router
	Cisco uBR10012 Universal Broadband Router
	Cisco 261xXM Series Access Routers
	Cisco 262xXM Series Access Routers
	Cisco 265xXM Series Access Routers
	Cisco 800 Series Routers
	Cisco 801 Routers
	Cisco 802 Routers
	Cisco 803 Routers
	Cisco 804 Routers
	Cisco 805 Routers
	Cisco 806 Routers
	Cisco 811 Routers
	Cisco 813 Routers
	Cisco 820 Routers
	Cisco 827 Routers
	Cisco 828 Routers
	Cisco 830 Series Router
	Cisco 831 Routers
	Cisco 836 Routers
	Cisco 837 Routers
	Cisco 871 Routers
	Cisco 1400 Series Routers
	Cisco 1600 Series Routers
	Cisco 1600R Series Routers
	Cisco 1700 Series Routers
	Cisco 1701 Routers
	Cisco 1710 Routers
	Cisco 1711 Routers
	Cisco 1711 Security Access Routers
	Cisco 1712 Routers
	Cisco 1712 Security Access Routers
	Cisco 1720 Routers
	Cisco 1721 Routers
	Cisco 1750 Routers
	Cisco 1751 Routers

OPERATING SYSTEM	PLATFORMS
	Cisco 1751-V Routers
	Cisco 1760 Routers
	Cisco 1760-V Access Routers
	Cisco 1800 Series Routers
	Cisco 1811 Routers
	Cisco 1841 Routers
	Cisco 2420 Routers
	Cisco 2501-2525 Routers
	Cisco 2600 Series Routers
	Cisco 2600XM Series Routers
	Cisco 2610 Routers
	Cisco 2610XM Routers
	Cisco 2611 Routers
	Cisco 2611XM Routers
	Cisco 2612 Routers
	Cisco 2613 Routers
	Cisco 2620 Routers
	Cisco 2620XM Routers
	Cisco 2621 Routers
	Cisco 2621XM Routers
	Cisco 2650 Routers
	Cisco 2650XM Routers
	Cisco 2651 Routers
	Cisco 2651XM Routers
	Cisco 2691 Routers
	Cisco 2800 Series Routers
	Cisco 3600 Series Routers
	Cisco 3620 Routers
	Cisco 3631 Routers
	Cisco 3640 Routers
	Cisco 3640A Routers
	Cisco 3660 Routers
	Cisco 3660-ENT Series Routers
	Cisco 3662 Routers
	Cisco 3700 Series Routers
	Cisco 3725 Routers
	Cisco 3740 Routers
	Cisco 3745 Routers
	Cisco 3800 Series Routers
	Cisco 3800 Series Integrated Services Routers
	Cisco 3825 Routers
	Cisco 4500 Series Routers
	Cisco 7000 Series Routers
	Cisco 7100 Series Routers
	Cisco 7200 Series Routers (including Cisco 7200 Series with ATA Disk)
	Cisco 7200VXR Series Routers
	Cisco 7200 MWAM Series Routers
	Cisco 7300 Series Routers
	Cisco 7301 Routers
	Cisco 7304-NPE-G100 Routers

OPERATING SYSTEM	PLATFORMS
	Cisco 7304-NSE-100 Routers
	Cisco 7400 Series Routers
	Cisco 7401 Routers
	Cisco 7500 Series Routers
	Cisco 7600-MWAM Routers
	Cisco 8850RPM-PR Routers
	Cisco 10000 Series Routers
	Cisco SOHO70 Routers
	Cisco SOHO76 Routers
	Cisco SOHO77 Routers
	Cisco SOHO77H Routers
	Cisco SOHO78 Routers
	Cisco 10000-PRE-1 Series Routers
	Cisco MC3810 Series Routers
	Cisco Catalyst 4000-AGM Series Switch
	Cisco Catalyst 4500 Series Switch
	Cisco Catalyst 6000 Series Switch with MWAM Card and VPNSM Module
	Master Controller Engine Linux Appliance
	Cisco IAD 2400 Series Integrated Access Devices
	Cisco 6400-NRP-1 Broadband Aggregators
	Cisco 6400-NRP-2 Broadband Aggregators
	Cisco 6400-NRP-2SV Broadband Aggregators
	Cisco IGX8400-URM Series Switch
	Cisco 8850RPM-PR Device
	Cisco CVA120 Device
	Cisco ICS7750 Series Switch
	Cisco VG200 Device
	Cisco ONS15104 Device
IOS 12.4	Cisco 800 Series Routers (including Cisco 806, 820, 826, 827, 827H, 827-4V, 828, 830, 831 & 837)
	Cisco 1700 Series Routers (including Cisco 1701, 1710, 1711, 1712, 1720, 1721, 1751, 1751-V & 1760)
	Cisco 1800 Series Routers (Modular) (including 1841)
	Cisco MWR 1900 Series Routers (including Cisco MWR 1941-DC Mobile Wireless Edge Router)
	Cisco 2600XM Series Modular Access Routers (including Cisco 2610XM, 2611XM, 2620XM, 2621XM, 2650XM, 2651XM, 2691)
	Cisco 2800 Series Routers (including Cisco 2801, 2811, 2821, 2851)
	Cisco 3200 Series Mobile Access Routers (including Cisco 3220, 3250)
	Cisco 3600 Series Routers (including Cisco 3631, 3640, 3640A, 3660)
	Cisco 3700 Series Routers (including Cisco 3725, 3745)
	Cisco 3800 Series Routers (including Cisco 3825, 3845)
	Cisco 7000 Family Routers
	Cisco SOHO 70 Series Routers (including SOHO 78)
	Cisco SOHO 90 Series Routers (including SOHO 91, 96, 97)

OPERATING SYSTEM	PLATFORMS
	Cisco Small Business 100 Series Routers (including 101 Secure Broadband Router, 106 Secure ADSL over ISDN Router & 107 Secure ADSL Router)
	Cisco VG224 Analog Gateway
	Cisco MWR 1900 Series Routers (including Cisco MWR 1941-DC Mobile Wireless Edge Router)
	Cisco IAD2430 Series Integrated Access Devices (including Cisco 2430-24FXS IAD, Cisco 2431-8FXS IAD, Cisco 2431-16FXS IAD, Cisco 2431-1T1E1 IAD, Cisco 2432-24FXS IAD)
	Cisco Catalyst 4500 Access Gateway Modules (including All Cisco Catalyst 4000 & 4500 Series Chassis, Supervisor Engine II, III & IV)
	Cisco Catalyst 6000/Cisco 7600 Multi-Processor WAN Application Module
	Cisco Catalyst 6500/Cisco 7600 Communication Media Module
	Cisco AS5350 & AS5350XM Universal Gateways
	Cisco AS5400, AS5400HPX & AS5400XM Universal Gateways
	Cisco AS5850 Universal Gateways
	Cisco IGX 8400 Series URM
	Cisco MGX 8850 Route Processor Modules
	Cisco Signaling Link Terminals
	Cisco 7200 VXR WAN Routers
	Cisco 7301 WAN Router
	Cisco Aironet Access Points 3600, 3500, 2600, 1600, 1550, 1530, 1260, 1140, 1040, 802, and 702
	Cisco AS5x50
IOS 15.0	Cisco 800 Series Routers (including Cisco 876, 877, 891)
	Cisco 1800 Series Routers (including Cisco 1801, 1802, 1841, 1861)
	Cisco 1900 Series Integrated Services Routers
	Cisco 2800 Series Integrated Services Routers (including Cisco 2801, 2811, 2821, 2851)
	Cisco 2900 Series Integrated Services Routers
	Cisco 3200 Rugged Integrated Services Routers
	Cisco 3800 Series Integrated Services Routers (including Cisco 3825, 3845)
	Cisco 3900 Series Integrated Services Routers
	Cisco 7000 Family Routers
	Cisco 7200 VXR Series WAN Routers
	Cisco 7301 WAN Router
	Cisco AS5350XM Universal Gateways
	Cisco AS5400XM Universal Gateways
	Cisco IAD2430 Series Integrated Access Devices
	Cisco IAD2801 Series Integrated Access Devices
	Cisco VG202 Voice Gateways
	Cisco VG204 Voice Gateways
	Cisco VG224 Analog Gateways
	Cisco VGD 1T3

OPERATING SYSTEM	PLATFORMS
	Catalyst 2960-X Switch
	Catalyst 3750-X Switch
	Catalyst 3750-E Switch
	Catalyst 3560-X Switch
	Catalyst 3560-E Switch
	Cisco AS5x50
IOS 15.1	Cisco 800 Series Routers (including 819G, 819HG, 860, 961, 966, 866VAE, 867, 867 VAE, 870, 871, 876, 877, 878, 881, 881 CUBE, 881W, IAD881, SRST881, 886, 886 CUBE, IAD886, 886 VA, 886 VA-W, 887, 887 CUBE, IAD887, 887 VA, 887 VA-M, 887 VA-W, 887 VAM-W, 888, 888 CUBE, 888E, IAD888, SRST888, 890, 891, 892, 892F CUBE)
	Cisco 1800 Series Routers (including Cisco 1801, 1802, 1803, 1805 wireless & nonwireless; Cisco 1811 & 1812 wireless & nonwireless (fixed configuration); Cisco 1841, 1841 VE (modular); 1841C; Cisco 1861, 1861E (integrated services))
	Cisco 1900 Series Integrated Services Routers (including Cisco 1905, 1906C, 1921, 1941, 1941W)
	Cisco 2800 Series Integrated Services Routers (including Cisco 2801, 2801C, 2811, 2811 VE, 2811C, 2851)
	Cisco 2900 Series Integrated Services Routers (including Cisco 2901, 2911, 2921, 2951)
	Cisco 3800 Series Integrated Services Routers (including Cisco 3825, 3825-NOVPN, 3825 IP RAN, 3845, 3845 RAN-O, 3845-NOVPN)
	Cisco 3900 Series Integrated Services Routers (including Cisco 3925, 3925E, 3945, 3945E)
	Cisco 7200 Series Routers (including Cisco 7200, 7200-NPE-G2, 7201, 7301)
	Cisco 7600 Series Routers (Cisco 7603-S, Cisco 7604, Cisco 7606, Cisco 7606-S, 7609, 7609-S, 7613)
	Cisco AS5350XM Universal Gateways
	Cisco AS5400XM Universal Gateways
	Cisco CGR 2000 Series (including CGR 2010)
	Cisco IAD2430 Series Integrated Access Devices (including Cisco IAD2430, 2431, 2432, 2435)
	Cisco IAD2801 Series Integrated Access Devices
	Cisco Unified Communications 500 Series
	Cisco VG200 Series Analog Voice Gateways (including Cisco VG202, 204, 224)
	Cisco VGD 1 T3 Voice Gateways
	Cisco MWR 2941 (including Cisco MWR 2941-DC, MWR 2941-DC-A)
	Cisco ASR 901 Series (including Cisco ASR 901 Router TDM version (A901-12C-FT-D, A901-4C-FT-D); Cisco ASR 901 Router Ethernet version (A901-12C-F-D, A901-4C-F-D))
	Cisco Catalyst 6500 Series Switches
	Instant Access Catalyst 6800ia Series Switches (including Catalyst C6800IA-48FPDR; Catalyst C6800IA-48FPD;

OPERATING SYSTEM	PLATFORMS
	Catalyst C6800IA-48TD)
	Cisco Catalyst 6807-XL Modular Switch (including C6807-XL)
	Cisco Catalyst 6880-X Series Extensible Fixed Aggregation Switches (including C6880-X-LE; C6880-X; C6880-X-LE-16P10G; C6880-X-16P10G)
	Chassis (including WS-C6513-E; CISCO7613-S; WS-C6513; WS-C6509-V-E; WS-C6509-E; CISCO7609-S; WS-C6506-E; CISCO7606-S; WS-C6504-E; CISCO7604; WS-C6503-E)
	Cisco 5940 Embedded Service Router
IOS 15.2	Cisco 800 Series Routers (including Cisco 812G, 812G-CIFI, 819G, 819H, 819HG, 819HGW, 819HW, 861, 866VAE, 867VAE, 881, 881G, 881GW, 881SRST, 881W, 881WD, 881-CUBE, 886VA, 886VAG, 887VAGW, 887VAMG, 887VA-M, 887VA-W, 887VA-WD, 887VAM-W, 887-CUBE; 888, 888E, 888EA, 888EG, 888SRST, 888-CUBE, 891, 892, 892 FSP, 892F-CUBE, 896VA, 897VA, 897VA-M, 897VA-W, 897VAM-W, 898EA)
	Cisco 1800 Series Routers (including 1861E)
	Cisco 1900 Series Integrated Services Routers (including Cisco 1905, 1906C, 1921, 1941, 1941W)
	Cisco 2900 Series Integrated Services Routers (including Cisco 2901, 2911, 2921, 2951)
	Cisco 3900 Series Integrated Services Routers (including Cisco 3925, 3925E, 3945, 3945E)
	Cisco 7200 Series Routers (including Cisco 7200, 7200-NPE-G2, 7201)
	Cisco 7300 Series Routers (including 7301)
	Cisco Connected Grid Router 2000 Series (including CGR 2010)
	Cisco High Density Analog Voice Gateways (including VG350)
	Cisco 5915 Embedded Services Router
	Cisco 5940 Embedded Services Router
	Cisco Catalyst 2960-X Switch Models (including Catalyst 2960X- 48FPD-L Switch; Catalyst 2960X-48LPD-L Switch; Catalyst 2960X-24PD-L Switch; Catalyst 2960X-48TD-L Switch; Catalyst 2960X-24TD-L Switch; Catalyst 2960X-48FPS-L Switch; Catalyst 2960X-48LPS-L Switch; Catalyst 2960X-24PS-L Switch; Catalyst 2960X-24PSQ-L Cool Switch; Catalyst 2960X-48TS-L Switch; Catalyst 2960X-24TS-L Switch; Catalyst 2960X-48TS-LL Switch; Catalyst 2960X-24TS-LL Switch; Catalyst 2960XR-48FPD-I Switch; Catalyst 2960XR-48LPD-I Switch; Catalyst 2960XR-24PD-I Switch; Catalyst 2960XR-48TD-I Switch; Catalyst 2960XR-24TD-I Switch; Catalyst 2960XR-48FPS-I Switch; Catalyst WS-C2960XR-48LPS-I Switch; Catalyst 2960XR-24PS-I Switch; Catalyst 2960XR-48TS-I Switch; Catalyst 2960XR-24TS-I Switch)
	Cisco Catalyst 3560E Series Switches
	Cisco Catalyst 3560X Series Switches

OPERATING SYSTEM	PLATFORMS
	Cisco Catalyst 3750E Series Switches
	Cisco Catalyst 3750X Series Switches
	Instant Access Catalyst 6800ia Series Switches (including Catalyst C6800IA-48FPDR; Catalyst C6800IA-48FPD; Catalyst C6800IA-48TD; Catalyst 3560CX-12PD-S)
	Cisco Catalyst 6807-XL Modular Switch (including C6807-XL)
	Cisco Catalyst 6880-X Series Extensible Fixed Aggregation Switches (including C6880-X-LE; C6880-X; C6880-X-LE-16P10G; C6880-X-16P10G)
	Chassis (including CISCO7613-S; WS-C6509-V-E; WS-C6509-E; CISCO7609-S; Catalyst 6807-XL; WS-C6506-E; CISCO7606-S; WS-C6504-E; CISCO7604; WS-C6503-E)
	Cisco Aironet Access Points 3600, 3500, 2600, 1600, 1550, 1530, 1260, 1140, 1040, 802, and 702
IOS 15.4	Cisco 800 Series Routers (including Cisco 812G, 812G-CIFI, 819G, 819H, 819HG, 819HGW, 819HW, 861, 866VAE, 867VAE, 881, 881G, 881GW, 881SRST, 881W, 881WD, 881-CUBE, 886VA, 886VAG, 886VAGW, 887VAMG, 887VA-M, 887 VA-W, 887VA-WD, 887VAM-W, 887-CUBE, 888, 888E, 888EA, 888EG, 888SRST, 888-CUBE, 891, 892, 892FSP, 892F-CUBE, 897VAW, 898EA) Cisco 1000 Series Connected Grid Routers (including CGR 1240; CGR 1120) Cisco 1900 Series Integrated Services Routers (Cisco 1905, 1906C, 1921, 1941, 1941W) Cisco Connected Grid Router 2000 Series (including CGR 2010) Cisco 2900 Series Integrated Services Routers (Cisco 2901, 2911, 2921, 2951) Cisco 3900 Series Integrated Services Routers (including Cisco 3925, 3925E, 3945, 3945E) Cisco 7600 Series Routers Cisco ASR 901 Routers Cisco ASR 901 10G Routers Cisco ME 3600X Switch Cisco ME 3600-24CX Switch Cisco ME 3800X Switch Cisco Analog Voice Gateways (including VG202XM, VG204SM) Cisco High Density Analog Voice Gateways (including VG350)
XR 3.0	Cisco XR 12000 Series Routers Cisco CRS-1 Routers
XR 3.2	Cisco CRS-1 Routers (including CRS-SIP-800 (aka "Tuxedo")) Cisco XR 12000 Series Router (including Cisco XR 12404; 12406, 12410, 12416, 12008, 12012)
XR 3.3	Cisco CRS-1 Routers Cisco XR 12000 Series Router (including Cisco XR 12404; 12406, 12410, 12416, 12008, 12012)
XR 3.4	Cisco CRS-1 Routers

OPERATING SYSTEM	PLATFORMS
	Cisco XR 12000 Series Router (including Cisco XR 12404; 12406, 12410, 12416, 12810, 12816, 12006, 12008, 12010, 12012, 12016)
XR 3.5	Cisco CRS-1 Routers
	Cisco XR 12000 Series Router (including Cisco XR 12404; 12406, 12410, 12416, 12810, 12816, 12006, 12008, 12010, 12012)
XR 4.3	Cisco ASR 9000 Series Router
	Cisco XR 12000 Series Router
	CRS-1 Routers
	CRS 3 Routers
XR 5.2	Cisco CRS 1 Routers
	Cisco CRS 3 Routers
	ASR 9000 Series Aggregation Services Routers
	NCS 4000 Series
	NCS 6000 Series
XE 2.1	Cisco ASR 1000 Series Aggregation Services Routers
	Cisco 10000 Series Router
XE 2.6	Cisco ASR 1000 Series Aggregation Services Routers
XE 3.3	Catalyst 4500E Series Switch
	Catalyst 4500 Series Switch
	Catalyst 3650 Series Switches
	Catalyst 3850 Series Switches
	Cisco 5700 Series Wireless LAN Controller
	Cisco ASR 1000 Series Aggregation Services Routers
	Cisco ASR 1001
XE 3.5	Catalyst 4500-X Series Switches
	Cisco ASR 1000 Series Aggregation Services Routers
	Cisco ASR 900 Series Router
NX-OS 4.0	Cisco Nexus 1000V Switch
	Nexus 7000 Series 10-Slot Chassis
NX-OS 5.0	Cisco Nexus 7000 Series Switches
	Cisco Nexus 5000 Switch
NX-OS 5.2	Cisco Nexus 7000 Series Switches
	Cisco Nexus 5000 Switch
NX-OS 6.2	Cisco Nexus 7000 Series Switches
	Cisco Nexus 5000 Switch
	Cisco Nexus 3000 Series Routers

Cisco's investigation of the information sought by this interrogatory is ongoing. Cisco therefore reserves the right to supplement its response in the event additional responsive information is identified.

SECOND SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 16:

Subject to and without waiver of its general and specific objections, Cisco further responds as follows:

Attached hereto as Exhibit F is a table containing information regarding the development of each of Cisco's command expressions that Arista has copied from one or more of Cisco's copyrighted works. The columns of that table include, for each command expression, the following information:

- **Author/Originator Information:** Legal author of the command expression and person(s) who participated in the origination of the command expression.
- **Earliest Known Document:** The first document known to Cisco that contains the command expression.
- **Date of Earliest Known Document:** The date of the first document known to Cisco that contains the command expression.
- **First Operating System:** The earliest known published work to contain the command expression.
- **First Distribution Date:** The date on which distribution of the first published work containing the command expression began.

Exhibit F contains **HIGHLY CONFIDENTIAL – ATTORNEYS' EYES ONLY INFORMATION.**

Pursuant to Fed. R. Civ. P. 33(d), Cisco additionally refers Arista to the documents identified in Exhibit F, from which Arista may obtain information about the development of each of Cisco's multi-word command expressions as easily as Cisco can obtain it:

- Source code identified above is available for review on the designated source code review terminals maintained by Cisco's outside counsel, as agreed between the parties in the stipulated Protective Order (Dkt. 53).
- The Bates ranges for the IOS documents identified in Exhibit F can be found in Cisco's original response to this Interrogatory.

- 1 • The emails identified in Exhibit F are located at CSI-CLI-00608586 to CSI-CLI-
2 00608740.
- 3 • Cisco's internal documents, which are designated with the "EDCS-" or "ENG-"
4 prefixes, can be found at CSI-CLI-00608741 to CSI-CLI-00612427.
- 5 • The "cisco Systems ASM/AGS User Manual and Configuration Guide Version
6 5.2" can be found at CSI-CLI-00358622 to CSI-CLI-00358654.
- 7 • The "cisco Systems AGS User Manual System Version 6.0" can be found at CSI-
8 CLI-00358166 to CSI-CLI-00358223.
- 9 • The "cisco Systems ASM Reference Manual System Version 6.0" can be found at
10 CSI-CLI-00358394 to CSI-CLI-00358451.
- 11 • The "cisco Systems AGS Reference Manual Software Version 6.1" can be found at
12 CSI-CLI-00358298 to CSI-CLI-00358393.
- 13 • The "cisco Systems Gateway Server Reference Manual Revision B" can be found
14 at CSI-CLI-00358722 to CSI-CLI-00358847.
- 15 • The "cisco Systems Gateway Server Update Applications Note GS-9, Revision A"
16 can be found at CSI-CLI-00359132 to CSI-CLI-00359185.
- 17 • The "cisco Systems Terminal Server Update Applications Note TS-6, Revision A"
18 can be found at CSI-CLI-00359229 to CSI-CLI-00359262.
- 19 • The "cisco Systems Release 8.0 Beta Notes Applications Note GS-10, Revision B"
20 can be found at CSI-CLI-00358655 to CSI-CLI-00358722.

21 Cisco objected to this interrogatory on the grounds that, *inter alia*, it is unduly
22 burdensome. Cisco has worked diligently to supplement its response with information that is
23 reasonably obtainable since the Court ordered Cisco to provide its supplementation. Cisco's
24 investigation of the subject matter of this interrogatory is ongoing, and Cisco reserves the right to
25 supplement its response pursuant to Fed. R. Civ. P. 26(e).

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27
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1 **THIRD SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 16:**

2 Subject to and without waiver of its general and specific objections, Cisco further responds
3 as follows:

4 Attached hereto as an amended version of Exhibit F.

5 The command modes and prompts identified in Cisco's response to Arista's Interrogatory
6 No. 2 were created by Kirk Lougheed. Those command modes and prompts were first
7 documented in the "cisco Systems ASM/AGS User Manual and Configuration Guide Version
8 5.2," which can be found at CSI-CLI-00358622 to CSI-CLI-00358654. They were created by at
9 least the date of that document: July 20, 1986.

10 The hierarchical arrangement of Cisco's CLI command expressions was originally created
11 by Kirk Lougheed. That arrangement was first documented in the "cisco Systems ASM/AGS
12 User Manual and Configuration Guide Version 5.2," which can be found at CSI-CLI-00358622 to
13 CSI-CLI-00358654. That arrangement was created by at least the date of that document: July 20,
14 1986. As command expressions were added in subsequent versions of Cisco's copyrighted
15 operating systems, this hierarchical arrangement of command expressions was modified and
16 extended by the addition of each such expression, information about the authorship of which is
17 contained in Exhibit F.

18 Cisco objected to this interrogatory on the grounds that, *inter alia*, it is unduly
19 burdensome. Cisco has worked diligently to supplement its response with information that is
20 reasonably obtainable since the Court ordered Cisco to provide its supplementation. Cisco's
21 investigation of the subject matter of this interrogatory is ongoing, and Cisco reserves the right to
22 supplement its response pursuant to Fed. R. Civ. P. 26(e).

23
24 **FOURTH SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 16:**

25 Subject to and without waiver of its general and specific objections, Cisco further responds
26 as follows:

27 Attached hereto as an amended version of Exhibit F.
28

1 The response to the “help” command identified in Cisco’s Fourth Supplemental Response
2 to Interrogatory No. 2 was created by Terry Slattery in version 9.21 of Cisco’s IOS. In addition to
3 the response to the “help” command, Mr. Slattery was responsible for the creation of the context-
4 sensitive descriptions of all Cisco CLI command expressions that existed as of version 9.21 of
5 IOS. The descriptions of subsequent command expressions were created by the originator(s) of
6 those command expressions, which are identified on Exhibit F to Cisco’s response to Interrogatory
7 Nos. 16 and 19. Exhibit F is incorporated by reference as if fully set forth herein.

8 Cisco objected to this interrogatory on the grounds that, *inter alia*, it is unduly
9 burdensome. Cisco has worked diligently to supplement its response with information that is
10 reasonably obtainable since the Court ordered Cisco to provide its supplementation. Cisco’s
11 investigation of the subject matter of this interrogatory is ongoing, and Cisco reserves the right to
12 supplement its response pursuant to Fed. R. Civ. P. 26(e).

13
14 **FIFTH SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 16:**

15 Subject to and without waiver of its general and specific objections, Cisco further responds
16 as follows:

17 Cisco’s efforts to provide a complete response to this interrogatory, irrespective of its
18 objections, have been extensive. Over the last 3 months, Cisco has worked with a team of 10
19 senior Cisco engineers to identify the originator of each command, as well as supporting
20 documents, as identified in Amended Exhibit F hereto. Collectively, the engineers have spent
21 hundreds of hours working to identify the originators of each command. Cisco’s engineering team
22 searched several different source code repositories dating back to 1992, using both manual
23 searches and a script that they wrote specifically for this project.

24 Cisco has also spent hundreds of additional hours searching internal Cisco documentation.
25 Cisco performed searches in Cisco’s internal design document repository, Cisco’s internal bug
26 repository, and Cisco’s other document storage systems. Additionally, Cisco interviewed and
27 reviewed the personal document repositories of dozens of Cisco engineers. Though Cisco has
28 identified originators for over 99% of the commands, Cisco continues to investigate the origin of

1 the remaining 4 commands. The results to-date of Cisco's search efforts are contained in
2 Amended Exhibit F. Amended Exhibit F is incorporated by reference as if fully set forth herein.

3 Cisco objected to this interrogatory on the grounds that, *inter alia*, it is unduly
4 burdensome. Cisco has worked diligently to supplement its response with information that is
5 reasonably obtainable with significant effort over the course of many months since the Court
6 ordered Cisco to provide its supplementation. Nevertheless, Cisco's investigation of the subject
7 matter of this interrogatory is ongoing, and Cisco reserves the right to supplement its response
8 pursuant to Fed. R. Civ. P. 26(e).

9 **SIXTH SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 16:**

10 Subject to and without waiver of its general and specific objections, Cisco further responds
11 as follows:

12 To facilitate Arista's review of Cisco's confidential source code, in response to Arista's
13 requests, Cisco supplements Exhibit F (incorporated by reference as if fully set forth herein) by
14 providing even more granular detail in its source code file identifications. For each file identified
15 in Exhibit F by a file path, Cisco states that the identified files do not have a file extension
16 identifier because they did not have a file extension identifier in their original form, and the files
17 have been preserved in their original form. In any event, we have preserved their original file
18 directory paths (as identified on Exhibit F) to facilitate swift identification. For those files that had
19 an extension identifier in their original form, at Arista's request, in order to facilitate Arista's
20 matching of source code files identified in Exhibit F and source code files made available for
21 inspection on the source code review computer, we have modified the file names of identically or
22 nearly-identically named files and clarified the extension type for each file on both Exhibit F and
23 the source code computer.

24 Cisco's investigation of the subject matter of this interrogatory is ongoing, and Cisco
25 reserves the right to supplement its response pursuant to Fed. R. Civ. P. 26(e).

26 **SEVENTH SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 16:**

27 Subject to and without waiver of its general and specific objections, Cisco further responds
28 as follows:

1 Attached hereto as an amended version of Exhibit F. Exhibit F is incorporated by reference
2 as if fully set forth herein

3 Cisco objected to this interrogatory on the grounds that, *inter alia*, it is unduly
4 burdensome. Cisco has worked diligently to supplement its response with information that is
5 reasonably obtainable since the Court ordered Cisco to provide its supplementation. Cisco's
6 investigation of the subject matter of this interrogatory is ongoing, and Cisco reserves the right to
7 supplement its response pursuant to Fed. R. Civ. P. 26(e).

8
9 **EIGHTH SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 16:**

10 Subject to and without waiver of its general and specific objections, Cisco further responds
11 as follows:

12 Attached hereto as an amended version of Exhibit F. Exhibit F is incorporated by reference
13 as if fully set forth herein

14 Cisco objected to this interrogatory on the grounds that, *inter alia*, it is unduly
15 burdensome. Cisco has worked diligently to supplement its response with information that is
16 reasonably obtainable since the Court ordered Cisco to provide its supplementation. Cisco's
17 investigation of the subject matter of this interrogatory is ongoing, and Cisco reserves the right to
18 supplement its response pursuant to Fed. R. Civ. P. 26(e).

19
20 **NINTH SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 16:**

21 Subject to and without waiver of its general and specific objections, Cisco further responds
22 as follows:

23 Cisco identifies at least the following documents and testimony as containing responsive
24 information: Deposition Testimony of Phillip Remaker, Tong Liu, Abhay Roy, Kenneth Duda,
25 Philip Shafer, Anthony Li, Greg Satz, and Kirk Loughed, Hugh Holbrook, Adam Sweeney, and
26 Devadas Patil..

27 Cisco objected to this interrogatory on the grounds that, *inter alia*, it is unduly
28 burdensome. Cisco has worked diligently to supplement its response with information that is

1 reasonably obtainable since the Court ordered Cisco to provide its supplementation. Cisco's
2 investigation of the subject matter of this interrogatory is ongoing. Cisco therefore reserves the
3 right to supplement this response as additional information becomes available, including
4 information that may be the subject of expert testimony and expert discovery.

5
6 **INTERROGATORY NO. 19:**

7 For each CLI Command response that Cisco alleges Arista unlawfully copied, identify:

8 (i) the author or originator of such CLI Command response, (ii) the date of such authorship or
9 creation, (iii) the document(s) in which such CLI Command response was first fixed in any
10 tangible medium of expression, (iv) the document(s) in which such CLI Command response was
11 first published, and (v) the first Cisco product (including version number) that used or responded
12 to each CLI Command response.

13
14 **RESPONSE TO INTERROGATORY NO. 19:**

15 Cisco incorporates by reference its General Objections as though fully set forth herein.
16 Cisco further objects to this interrogatory as compound and unduly burdensome, as it calls for
17 numerous pieces of information. Cisco further objects to this interrogatory as irrelevant and not
18 calculated to lead to the discovery of admissible evidence to the extent it seeks information not
19 relevant to the copyrightability of Cisco's works-in-suit. Cisco further objects to this interrogatory
20 to the extent that it calls for information that is publicly available or equally available to Arista,
21 and therefore is of no greater burden for Arista to obtain than for Cisco to obtain. Cisco also
22 objects to this interrogatory as undefined, vague, ambiguous, overbroad, and unduly burdensome
23 in its use of the term "each CLI Command response." Cisco further objects that this interrogatory
24 is vague, ambiguous, and unintelligible to the extent it requests an "author or originator" of a
25 command response. Cisco further objects to this interrogatory to the extent it calls for a legal
26 conclusion. Cisco also objects to this interrogatory to the extent that it is cumulative and
27 duplicative of other discovery sought by Arista, including at least Interrogatory No. 5. Cisco
28 further objects to this interrogatory to the extent it seeks information that is protected by the

1 attorney-client privilege, that constitutes attorney work-product, or that is protected by any other
2 applicable privilege, protection, or immunity, including without limitation in connection with the
3 common interest doctrine.

4 Subject to and without waiver of the foregoing general and specific objections, Cisco
5 responds as follows:

6 The command responses identified in Cisco's response to interrogatory no. 2 are generated
7 in response to "show" command expressions, which are included in Exhibit E to Cisco's
8 interrogatory responses. The response to each such "show" command expression was originally
9 created in conjunction with the creation of the command expression itself, by the Cisco
10 engineer(s) responsible for developing that command expression, and was present in the version of
11 Cisco's products first including that command expression. Cisco therefore incorporates by
12 reference its response to Arista's interrogatory no. 16 (including Exhibit F), which contains
13 information regarding the creation of Cisco's "show" command expressions.

14 Cisco's investigation of the subject matter of this interrogatory is ongoing. Cisco therefore
15 reserves the right to supplement this response as additional information becomes available.

16
17 **SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 19:**

18 Subject to and without waiver of its general and specific objections, Cisco further responds
19 as follows:

20 Cisco identifies at least the following documents and testimony as containing responsive
21 information: Deposition Testimony of Phillip Remaker, Tong Liu, Abhay Roy, Kenneth Duda,
22 Philip Shafer, Anthony Li, Greg Satz, and Kirk Loughheed, Hugh Holbrook, Adam Sweeney, and
23 Devadas Patil..

24 Cisco additionally incorporates its response to Arista's Interrogatory No. 16 (including
25 each and every version Exhibit F, up to and beyond Cisco's Supplemental Eighth Exhibit F),
26 which contains information regarding the creation of Cisco's command expressions.

1 Cisco's investigation of the subject matter of this interrogatory is ongoing. Cisco therefore
2 reserves the right to supplement this response as additional information becomes available,
3 including information that may be the subject of expert testimony and expert discovery.
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1 DATED: May 27, 2016

Respectfully submitted,

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PROOF OF SERVICE

I hereby certify that, at the date entered below, I caused a true and correct copy of the foregoing to be served by transmission via the email addresses below:

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I declare under penalty of perjury that the foregoing is true and correct. Executed on May 27, 2016, at San Francisco, California.

/s/ Catherine R. Lacey

Catherine R. Lacey